aiwa

HV-FX5500K VHS PAL

STEREO VIDEO CASSETTE RECORDER

OPERATING INSTRUCTIONS

VIDEO Plus+®

Warning
(FOR USE IN THE UNITED KINGDOM)

This appliance is supplied with a fitted three pin mains plug.
A 3 amp fuse is fitted in the plug. Should the fuse need to be replaced, use a 3 amp fuse approved by ASTA or BSI to BS 1362. When replacing the fuse, you must ensure that any removable fuse covers are correctly refitted.
If you should lose the fuse cover, please contact your nearest AIWA dealer.

DO NOT CUT OFF THE PLUG FROM THIS APPLIANCE

If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, obtain an appropriate safety approved extension lead or adaptor. If in any doubt please consult a qualified electrician.

If the plug is cut off, remove the fuse and dispose of the plug immediately. **THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.**

If a new plug is to be fitted please ensure it contains a 3 amp fuse, otherwise the circuit should be protected by a 5 amp fuse at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE — NEUTRAL
BROWN — LIVE

As the colours of the wires in the mains lead of this appliance may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED.

DO NOT connect either the BLUE or BROWN wire of the mains lead to the earth terminal (marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN/YELLOW) of a three pin plug.

Warning

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Precautions

Important

- Use only VHS-marked cassettes with this unit.
- This unit is designed to receive and record using the PAL colour system, and playback using the PAL and NTSC colour system.
- Audio/video material may consist of copyrighted work which must not be recorded without the authorization of the owner of the copyright. Please refer to the relevant laws in your country.

Installing

- The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from the each side.
  - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
  - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- Keep the unit away from radiators and other heat sources.
- Avoid using the unit near strong magnetic fields.
- Use the unit in the horizontal position only.
- Install the unit at least one meter away from radios and receivers. Otherwise, noise may occur during radio reception.
- Do not place heavy objects on the unit.

Cautions

- Do not open the cabinet of the unit.
- Do not push any kind of object into the unit through the cabinet openings as they could touch current carrying parts, which may result in short-circuit, fire, electric shock, or damage to the unit.
- Do not spill liquid of any kind on this unit. If any liquid is spilled over the unit, immediately disconnect the unit from the mains, and consult a qualified service engineer.
- Do not put your hand into the tape compartment.
- When the system is not used for an extended period of time, disconnect the mains lead. When the lead is plugged in, a small amount of current continues to flow to the system, even when the power is turned off.
- When there is lightning, immediately disconnect the unit from the mains and never touch the aerial cable.

Note on moisture condensation

Moisture may condense inside the unit and cause damage to the unit and tape when the unit is moved from a cold to a warm place, after heating a cold room, or under conditions of high humidity. If any of above conditions is applied, place the unit in a well-ventilated area and wait for about two hours before operating the unit, until the unit is warmed to room temperature and the moisture evaporates completely.

Maintenance

Professional periodic maintenance is required to keep the optimum performance of the unit. Maintenance and adjustments to internal components should not be done by the user. Please consult your dealer if you have any trouble with the unit.

Cleaning the unit

Wipe the cabinet clean using a damp soft cloth with diluted detergent. Never use thinner or benzine since they will damage the cabinet surface.

Cleaning the video heads

Although the unit cleans the video heads automatically, dirt may be accumulated after a long period of use. If the playback picture is blurred or noisy while the TV programmes are received clearly, the video heads may be dirty. In this case, clean the video heads using a commercially available video heads cleaning tape.

ATTENTION

- Please ensure that you keep a record of the Security "PIN" code in a safe place, in case you forget it.
- If your Video Recorder needs to be serviced, please ensure that the Anti-Theft feature is turned OFF, otherwise the repairer will be unable to service the unit.
- If you have difficulty with the Security feature, please contact the Aiwa Customer Helpdesk on: **0990 902902**.

Welcome

Thank you for purchasing this AIWA product. To optimise the performance of this unit, please read through this manual carefully.

Main features of this VCR

Anti-Theft

You can limit the number of users if you enter your name, post code, and PIN code into this VCR. The VCR doesn't work if PIN code is entered incorrectly.

VIDEO Plus+ system and One-Touch Playback

You can easily set the timer with the VIDEO Plus+ system.
The recorded TV programmes can be played back quickly with One-Touch Playback.

PDC (Programme Delivery Control)

You do not have to worry anymore about broadcast delays, early starts, or interruptions.
The PDC system adjusts the start and finish times of the TV programmes.

NICAM broadcast

You can receive, record, and play back stereo and bilingual TV programmes.

Auto Set-Up

You can easily finish the VCR settings of the clock and TV channels at once.

Power Save Mode

You can reduce the power spending during the standby mode.

NTSC Playback on PAL-TV

Tapes recorded in the NTSC system can be played back on this VCR.

* VIDEO Plus+®

VIDEO Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

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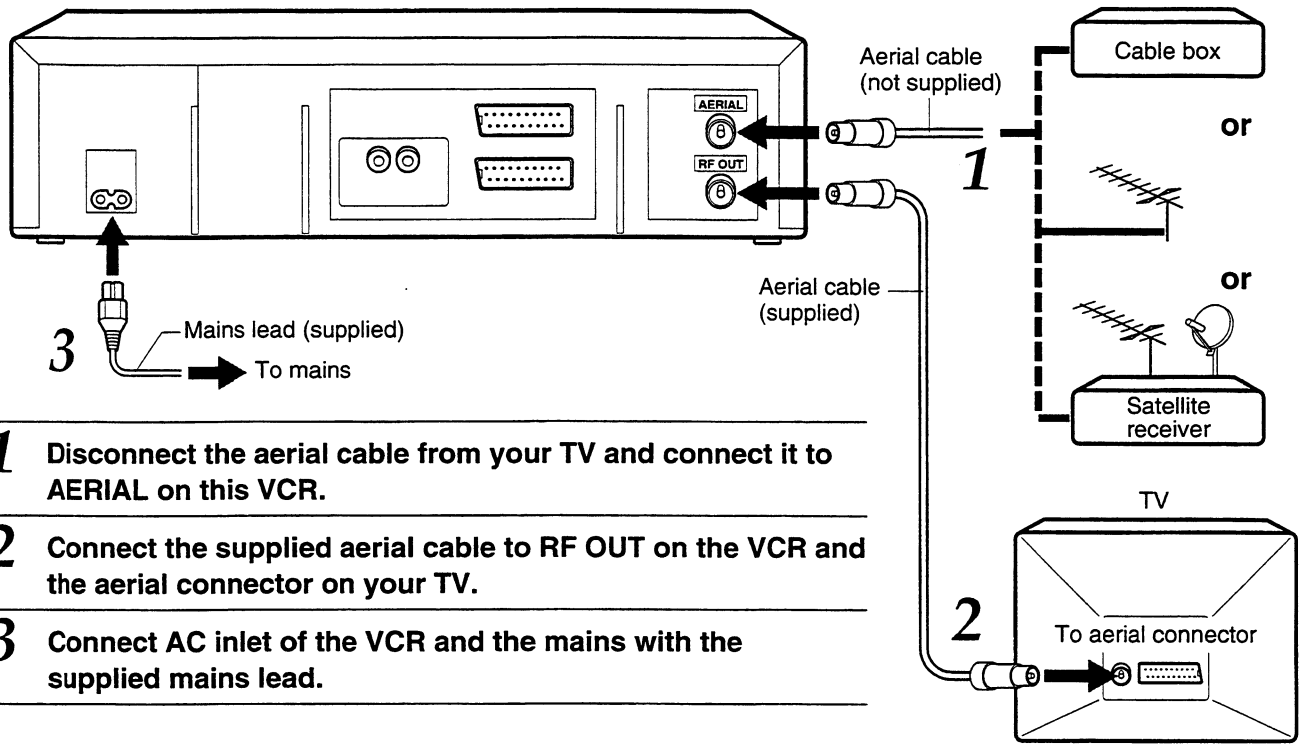
Connecting the VCR

Basic connections



1 **Disconnect the aerial cable from your TV and connect it to AERIAL on this VCR.**

2 **Connect the supplied aerial cable to RF OUT on the VCR and the aerial connector on your TV.**

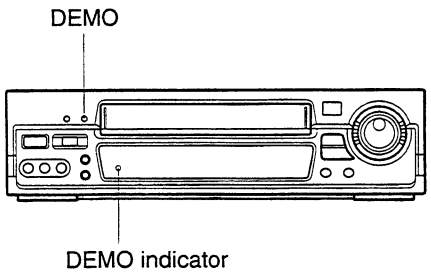
3 **Connect AC inlet of the VCR and the mains with the supplied mains lead.**

To listen to a stereo recorded tape or TV programme

Connect the VCR to a stereo TV with an optional 21-pin scart cable, or stereo system with the supplied audio cable, as shown in "Additional connections" on pages 5 and 6. The sound from the VCR's aerial output is monaural.

Demo mode

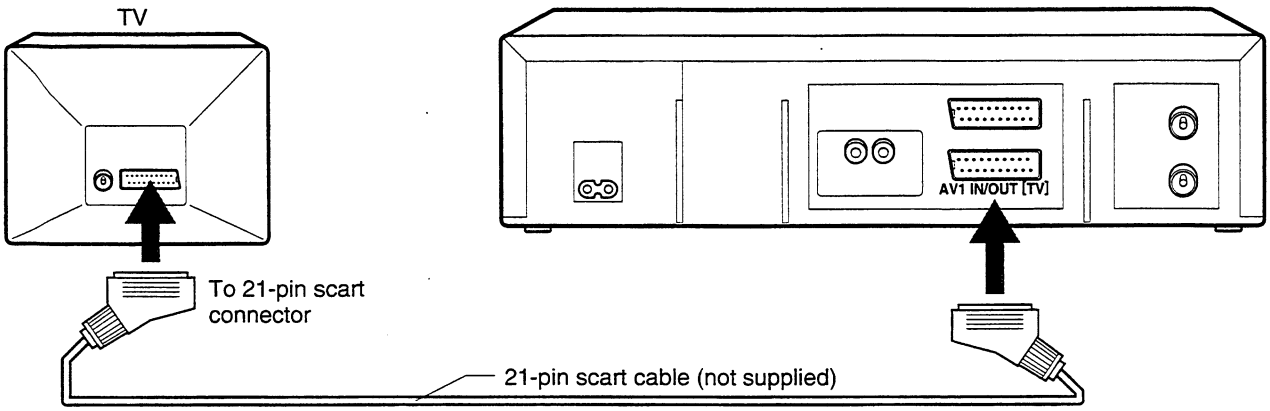
This VCR when first powered via the mains will enter a Demo mode. The DEMO indicator flashes in the display window during Demo mode.
To override this, press DEMO on the VCR during power off.



Additional connections

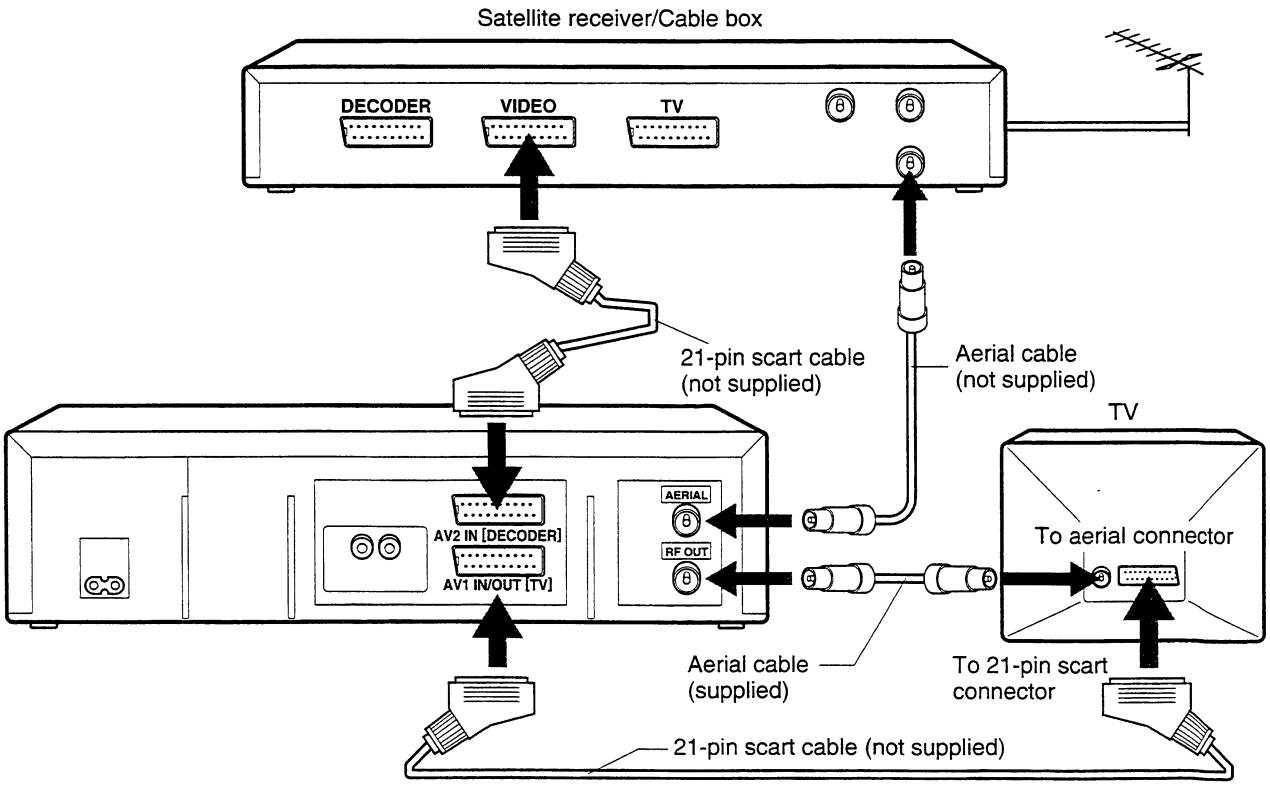
To connect to the TV with a 21-pin scart connector

This connection improves the picture and sound quality.
Connect the VCR and the TV with an optional 21-pin scart cable.



To connect a satellite receiver or cable box with a 21-pin scart connector

Connect the VCR and the satellite receiver or the cable box with an optional 21-pin scart cable.

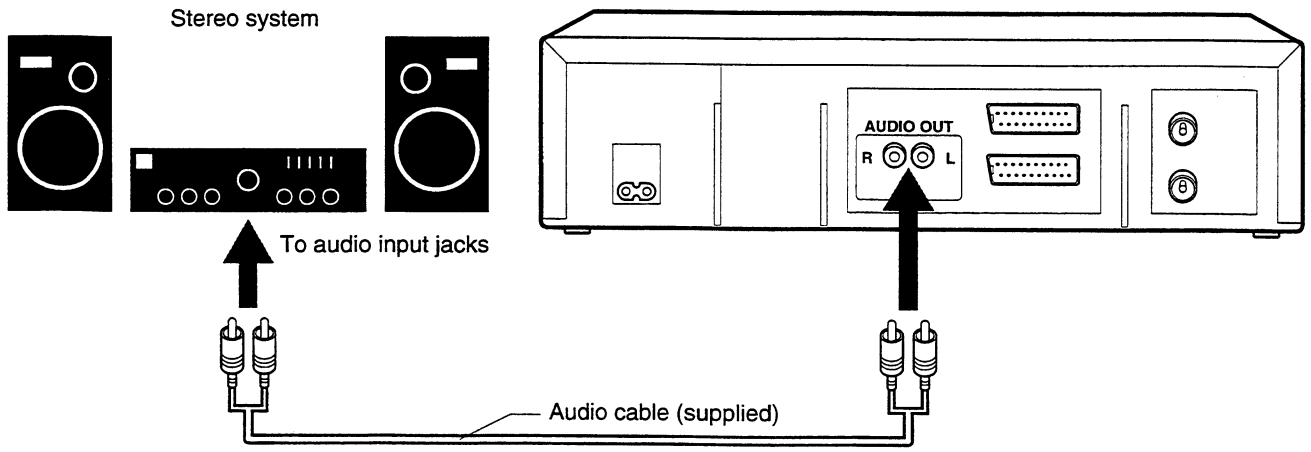


Note

If your satellite receiver or cable box has more than two scart connectors, use the VIDEO, VCR or AUX output to connect to the VCR and not the TV output. Otherwise you may not receive a proper picture.
Refer to the operating instructions of the satellite receiver or the cable box.

To connect to a stereo system

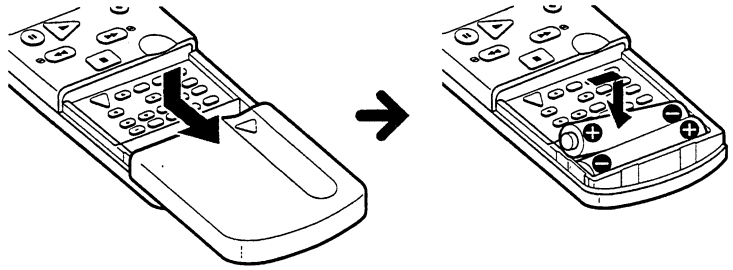
This connection improves the sound quality.
Connect AUDIO OUT on the VCR to the audio input jacks on the stereo system with the supplied audio cable.



Preparing the remote control

Inserting the batteries

Insert the two supplied R6 (size AA) batteries.
Be sure to match ⊕ and ⊖ on the batteries to the diagram inside the battery holder.

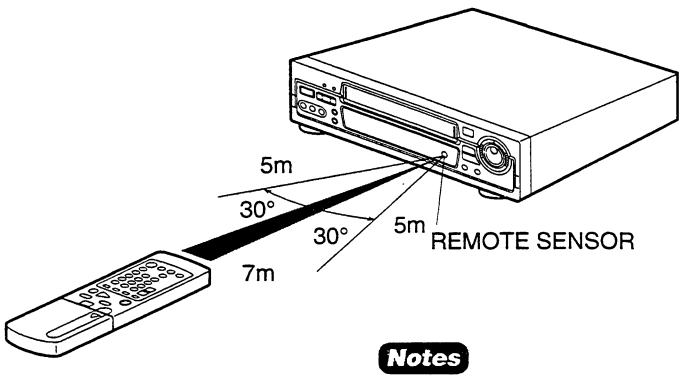


Notes

- Do not mix a new battery with an old one.
- Do not mix different kinds of batteries.
- Remove the batteries when they have no more power, or when you do not use the remote control for a long period of time.

Using the remote control

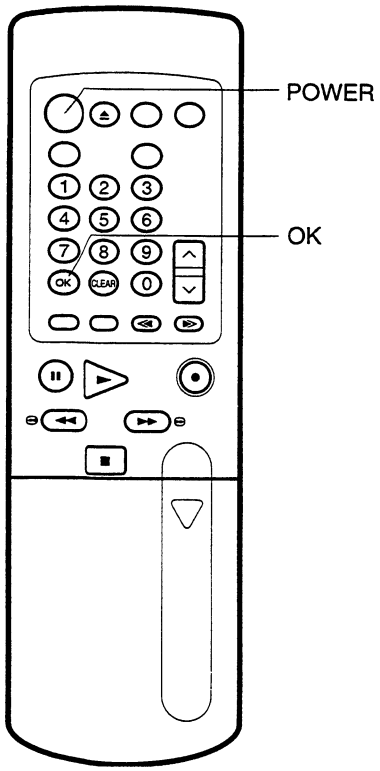
Point the remote control toward REMOTE SENSOR.

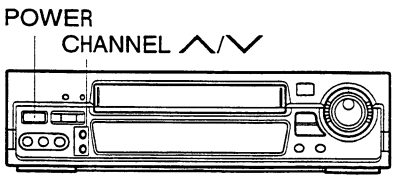


Notes

- The remote control may not operate when there is any obstruction between the remote control and REMOTE SENSOR.
- Strong ambient light sources such as a fluorescent lamp or direct sunlight may cause unreliable operation.
- Using a TV with the same type of infrared remote control facing the same direction may cause incorrect operation.
- The maximum distance for effective control between the remote control and REMOTE SENSOR is 7 metres.
- Although you can use the remote control within an angle of up to 30 degrees in any direction from directly in front of REMOTE SENSOR, we recommend a narrower angle for stable operation.

Tuning your TV to the VCR

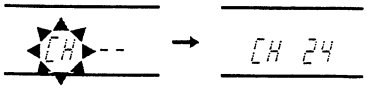




If you have connected the VCR to the TV with a 21-pin scart cable, this procedure is not necessary.

1 Press POWER to turn on the VCR.
Make sure your TV is turned on.

2 Press and hold CHANNEL ∧/∨ on the VCR simultaneously for more than 5 seconds.
"CH" in the display window flashes, and the output channel from the VCR is tuned to an unused VCR channel automatically.



3 Select an unused channel position on the TV and tune the TV so that the blue "aiwa" picture appears clearly on the TV screen.
Refer to the TV operating instructions for TV tuning method.

4 Press OK.
Your VCR is now tuned to your TV.
Whenever you want to play back a tape, select this channel position.

If there is interference on the picture (wavy lines, picture roll, etc.)

1 Press CHANNEL ∧/∨ on the VCR simultaneously for 3 seconds.
The blue "aiwa" picture appears on the TV screen.

2 Press CHANNEL ∧/∨ to select another channel.
You can select any number between 22 and 69. We recommend you try to select one of the numbers, 52, 67, 57 and 22.

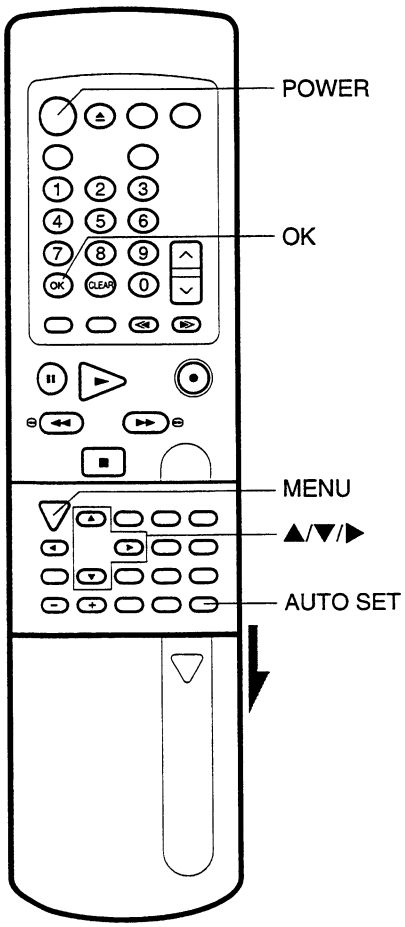
3 Tune the TV so that the blue "aiwa" picture appears clearly on the TV screen.

4 Press OK.

If there is still interference on the TV screen

Connect the VCR to the TV with a 21-pin scart cable.
Press CHANNEL ∧/∨ on the VCR simultaneously for 3 seconds. Then press CHANNEL ∧/∨ repeatedly to display "CH – –" in the display window. And press OK.
You do not have to tune in a dedicated VCR output channel.
Whenever you want to play back a tape, simply select a channel on your TV called AV or AUX. (See your TV instructions.)

Setting up the VCR — Auto Set-Up



Tip

Once you conduct Auto Set-Up, "SAT" is displayed for channel position 6 as the TV station's name. If you are using the cable TV, enter the proper station's name manually. See page 12.

Notes

- Even if the power supply is interrupted, the VCR will automatically receive the preset channels and set the clock when the power is restored once you have completed Auto Set-Up. This function does not operate if the TV station is not broadcasting when the power is restored.
- The VCR will automatically correct the clock, four times a day (four, seven, twelve, and eighteen o'clock).
- The VCR will automatically adjust the clock for Daylight Saving once you completed Auto Set-Up.
- If the VCR is not connected to a cable TV or satellite receiver with the aerial cable, no TV station will be assigned to CH6.
- The name of the TV station is displayed only when the TV station has UDT information.
- Once you conduct Auto Set-Up, the previous settings will be cancelled.

This convenient Auto Set-Up function can preset the clock and channels for the VCR at the same time by pressing a single button.

Before starting

If the VCR is connected to a cable TV or satellite receiver with the aerial cable, make sure to turn them on and set them to SKY NEWS.

1 Press POWER to turn on the VCR.

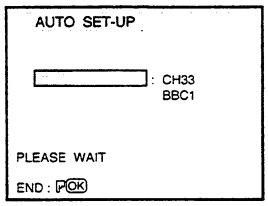
2 Turn on the TV and set it for VCR reception.

- When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the channel called AV or AUX.
- When they are connected with only the aerial cable, set the TV to the VCR output channel.

3 Press and hold AUTO SET for a few seconds.

A scan bar will appear on the TV screen.

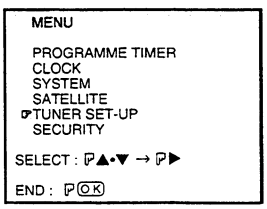
After about 4 minutes, the VCR will have finished setting the date, time and channels. The current time will then appear in the display window.



4 Press MENU.

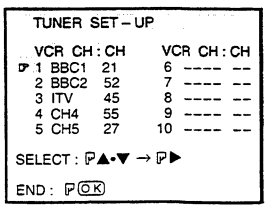
5 Press ▲/▼ to select TUNER SET-UP, then press ▶.

TUNER SET-UP screen appears.



6 Check whether the correct TV stations are assigned to the correct channel position in the following way:

Channel position	TV station
1	BBC1
2	BBC2
3	ITV
4	CH4
5	CH5
6	Cable TV/Satellite (Set SKY NEWS if the cable TV or satellite receiver is connected with the aerial cable)



- **The correct channel assignment is necessary for timer recording with VIDEO Plus+.**
- **If not, see "If the assignment of the TV station is not correct" on page 11.**

7 Press OK to return to the normal screen.

If the VCR presets no channels after Auto Set-Up

Check the aerial connections and repeat from step 3 on page 9. If you still cannot receive the channels, set the VCR channels manually. See page 37.
(Presetting the VCR channels is necessary for recording TV programmes.)

If the VCR does not set the clock after Auto Set-Up

Set the clock manually. See page 36.
(Setting the clock correctly is necessary for timer recording.)

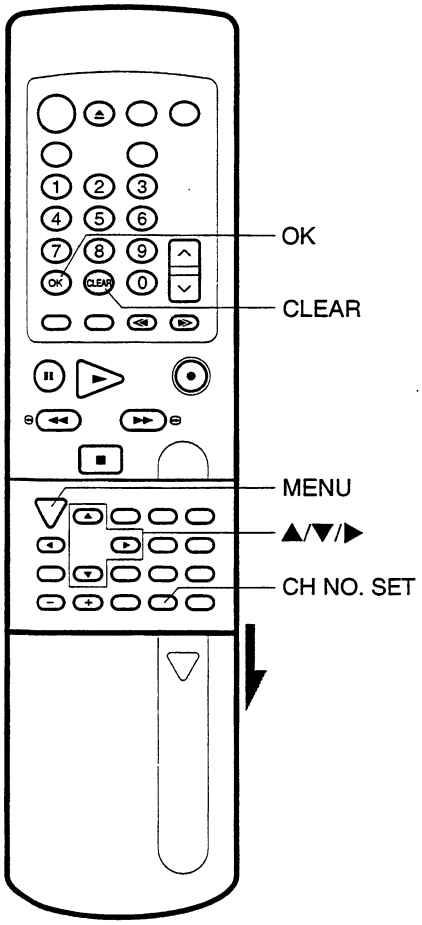
If the VCR receives more than one station of the same type

In some areas, it is very common to receive more than one station of the same type. After Auto Set-Up, the strongest station will be stored in the correct channel position.

Example

Channel position	TV station
1	BBC1 Wales
2	BBC2 Wales
3	ITV West
4	CH4 (English)
5	CH5
6	Satellite channel
7	BBC1 West
8	BBC2 West
9	ITV Wales
10	S4C (Wales)

Even if two TV stations have the same name, the contents of the programmes may be different. Change the assignment of the required TV station to the correct channel position, otherwise VIDEO Plus+ will not work correctly. See page 11.



Tip

To erase an unnecessary TV station, press CLEAR after step 3.

Note

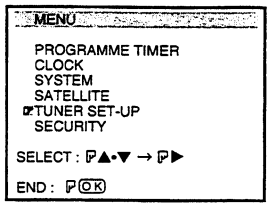
You cannot select TUNER SET-UP in step 2 when the VCR is in AV1, AV2 or LINE mode.

If the assignment of the TV stations is not correct

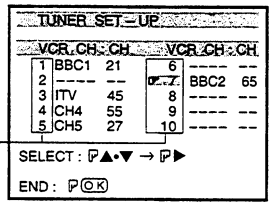
Weak broadcast signals may have been preset to 7CH or higher. Reassign the channel position manually.

1 **Press MENU.**

2 **Press ▲/▼ to select TUNER SET-UP, then press ▶.**



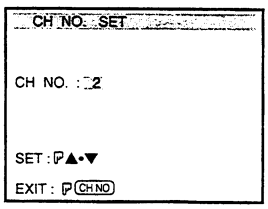
3 **Press ▲/▼ to select the channel position you want to reassign.**



4 **Press CH NO. SET.**

5 **Press ▲/▼ to select the correct channel position.**

If you assign a channel position number which has already been assigned to another TV stations, the channel position numbers for those two stations will be exchanged.

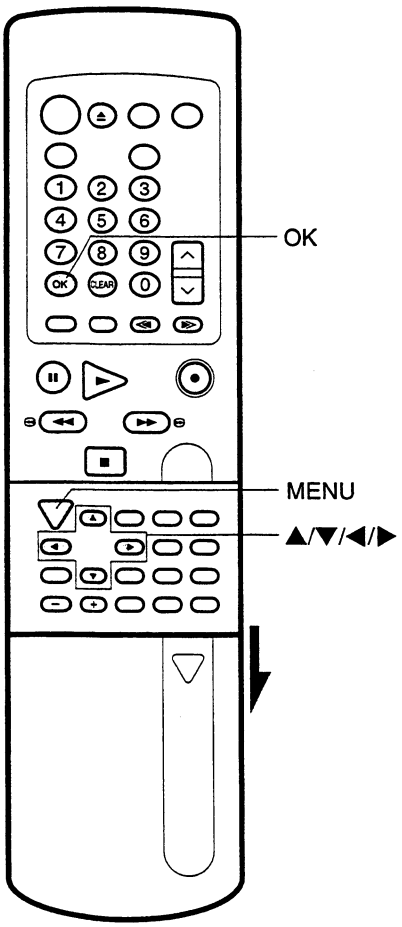


6 **Press CH NO. SET.**

The screen on step 3 returns.

7 **If you want to reassign another TV station, repeat steps 3 through 6.**

8 **Press OK to return to the normal screen.**

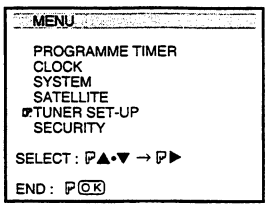


Entering the TV station's name

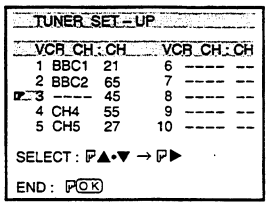
The TV station's name is displayed automatically only when the TV station has UDT information.
You can enter the TV station's name manually.

1 **Press MENU.**

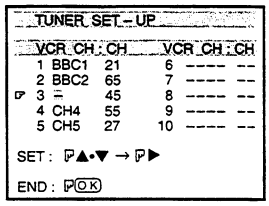
2 **Press ▲/▼ to select TUNER SET-UP, then press ▶.**



3 **Press ▲/▼ to select the channel position number you want to enter the TV station's name.**



4 **Press ▶.**



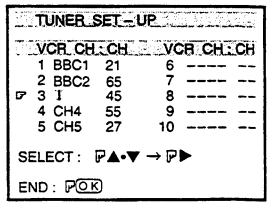
Note
You cannot select TUNER SET-UP in step 2 when the VCR is in AV1, AV2 or LINE mode.

5 **Press ▲ to display the desired letter, then press ▶.**

The display changes as follows:

A → B → ··· → Z → 1 → 2 → ··· → 9 → 0 → – → (space)

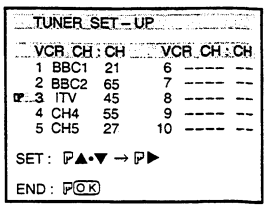
Press ▼ to change the display in reverse order.



6 **Repeat step 5 to enter the TV station's name.**

You can enter up to 4 letters.

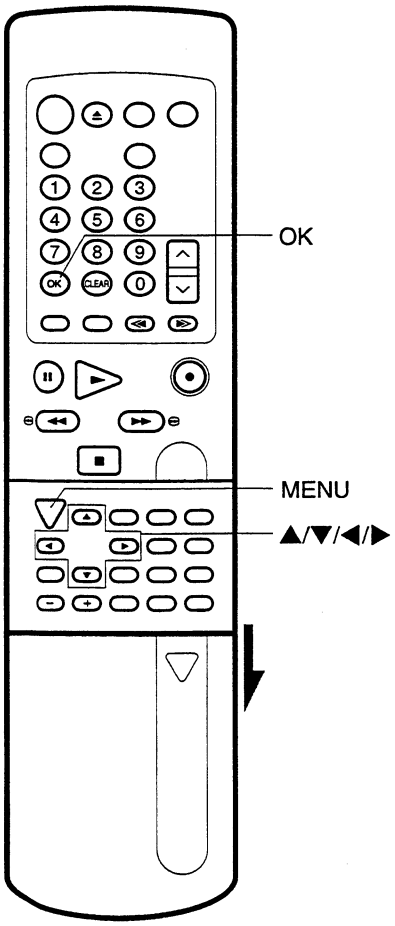
7 **Press ◀ until the channel position number highlights.**



8 **If you want to enter another TV station's name, repeat steps 3 through 7.**

9 **Press OK to return to the normal screen.**

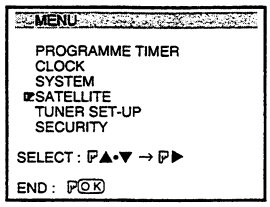
Setting the satellite receiver or cable box



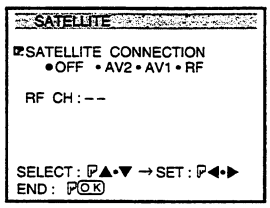
If you have connected a satellite receiver or cable box.
You must select the channel position to which the satellite receiver or cable box is connected.

1 **Press MENU.**

2 **Press ▲/▼ to select SATELLITE, then press ▶.**

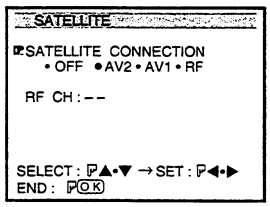


3 **Press ▲/▼ to select SATELLITE CONNECTION.**

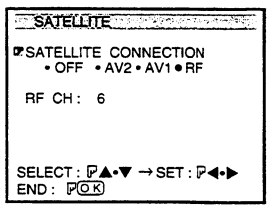


4 **Press ◀/▶ to select the channel position to which the satellite receiver or cable box is connected.**

- When the VCR and the satellite receiver or cable box are connected with a 21-pin scart cable, select AV2.



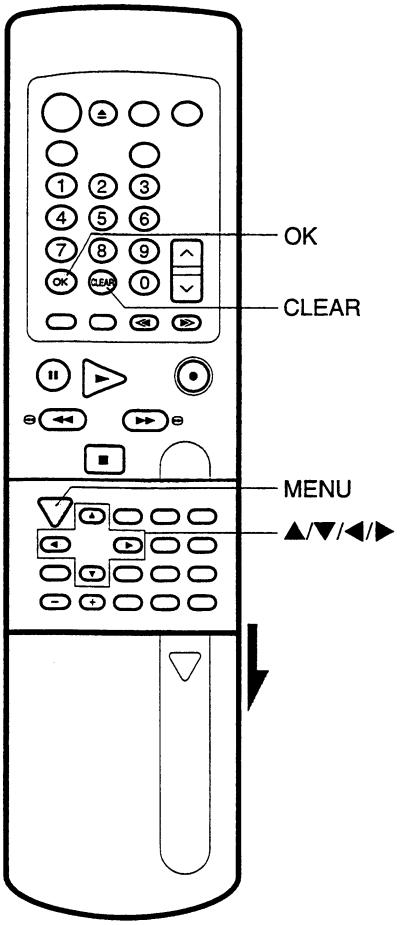
- When they are connected with only the aerial cable, check that RF is selected and RF CH is set to "6."
  Once you have completed Auto Set-Up, RF and "RF CH : 6" are set automatically.



5 **Press OK to return to the normal screen.**

Tip
If RF CH is not set to 6CH, press ▲/▼ to select RF CH, then press ◀/▶ to select "6" in step 4.

Setting the Security Protect – Anti-Theft

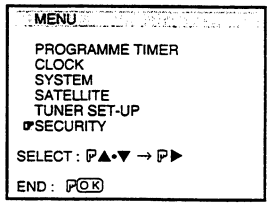


This Security Protect function limits the number of users. To set the Security Protect function, register your name, your post code, and the PIN code into this VCR, then set the Security Protect to lock the VCR.

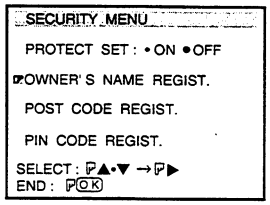
Registering your name

1 **Press MENU.**

2 **Press ▲/▼ to select SECURITY, then press ▶.**

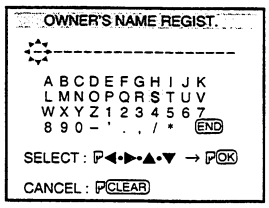


3 **Press ▲/▼ to select OWNER'S NAME REGIST., then press ▶.**



4 **Press ▲/▼/◀/▶ to select the desired letter, then press OK.**

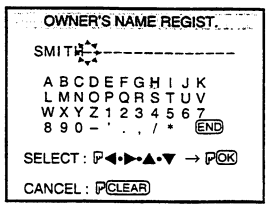
If you make a mistake, press CLEAR.



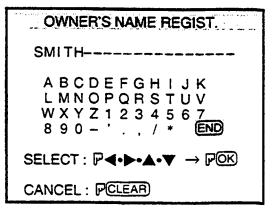
5 **Repeat step 4 to enter your name.**

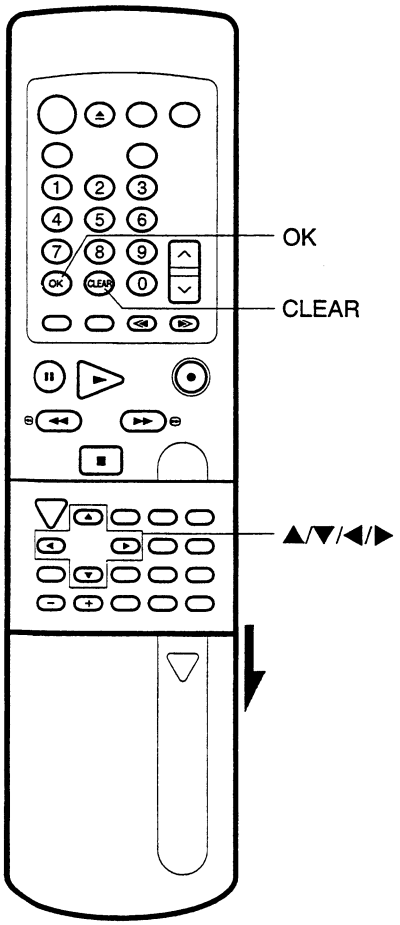
You can enter up to 20 letters.

The entered name may need to certify the owner. Make sure that your name is entered correctly.



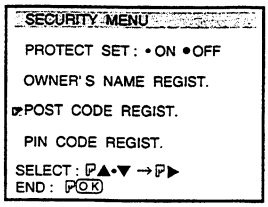
6 **Press ▲/▼/◀/▶ to select END, then press OK to return to the SECURITY MENU.**





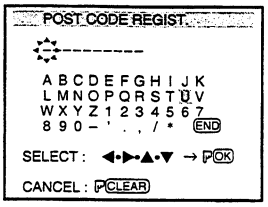
Registering your post code

1 **In the SECURITY MENU, press ▲/▼ to select POST CODE REGIST., then press ▶.**



2 **Press ▲/▼/◀/▶ to select the desired letter, then press OK.**

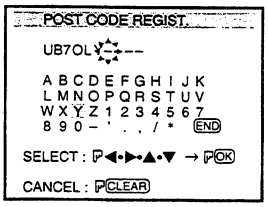
If you make a mistake, press CLEAR.



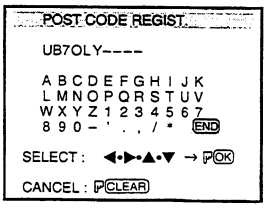
3 **Repeat step 2 to enter your post code.**

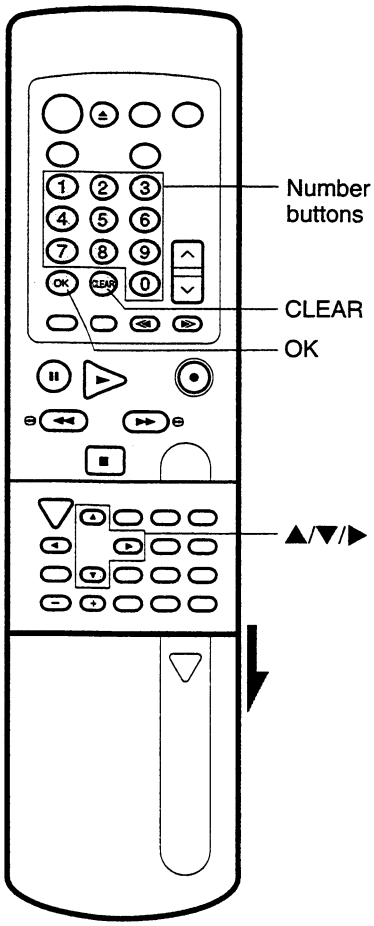
You can enter up to 10 letters.

The entered post code may need to certify the owner. Make sure that the post code is entered correctly.



4 **Press ▲/▼/◀/▶ to select END, then press OK to return to the SECURITY MENU.**



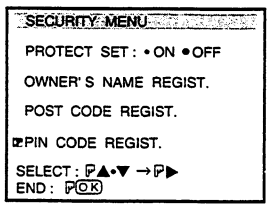


Registering your PIN code

Important

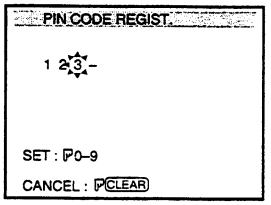
You cannot operate the VCR if you forget the pin code. We recommend you write down the PIN code number and keep it in a safe place in case you forget it.

1 **In the SECURITY MENU, press ▲/▼ to select PIN CODE REGIST., then press ▶.**

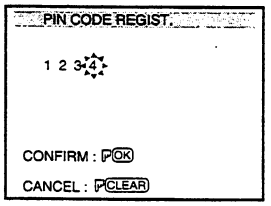


2 **Enter the PIN code (4 digits) using the number buttons.**

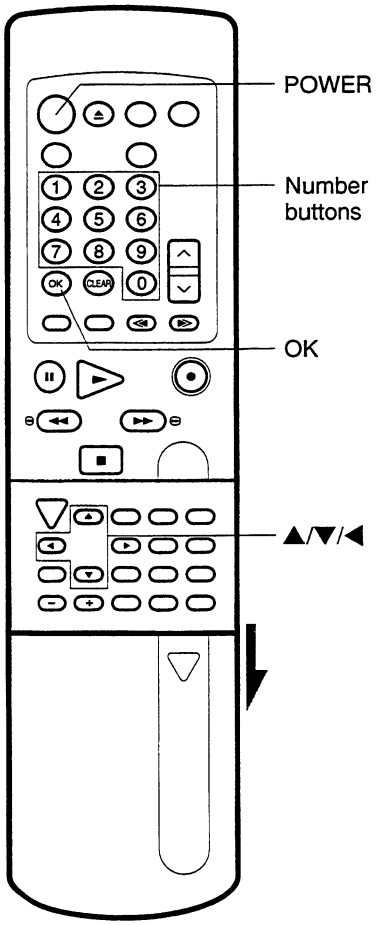
If you make a mistake, press CLEAR.



When you enter the fourth digits, the display shown on the right appears.



3 **Press OK to return to the SECURITY MENU.**



Notes

- "PLEASE ENTER PIN CODE" does not appear in the following cases:
  - When you turn on and off by pressing POWER.
  - When you reconnect the mains lead to the mains in 10 minutes after you disconnect it.
- When the VCR is locked, only POWER, STOP, and EJECT buttons work.

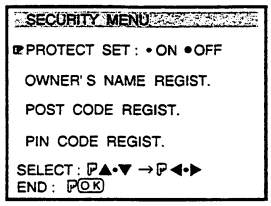
Setting the Security Protect to lock the VCR

Important

In case you cannot remember your PIN code number, please contact Customer help-line 0990-902902 or your Retailer.

1 In the SECURITY MENU, press ▲/▼ to select PROTECT SET.

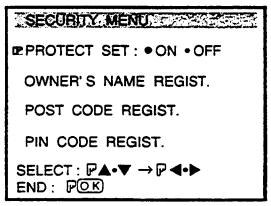
If the PIN code is not registered, you cannot select PROTECT SET.



2 Press ◀ to select ON, then press OK.

The normal screen returns.

"ANTI THEFT" appears in the display window.



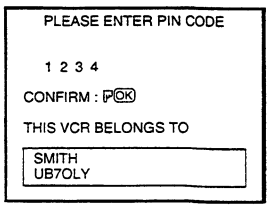
3 Press POWER to turn off the VCR and disconnect the mains lead from the mains.

The VCR will be locked after 5 minutes.

When you reconnect the mains lead to the mains and press POWER to turn on the VCR after VCR is locked, the VCR does not work until you enter the PIN code.

To use the VCR after the VCR is locked

1 After setting the security protect function, and you reconnect the mains lead to the mains more than 10 minutes later, "PLEASE ENTER PIN CODE" will appear when you press POWER to turn on the VCR.



2 Enter the PIN code you set using the number buttons, then press OK.

- If you enter the correct PIN code, "PIN CODE OK" will be displayed on the TV screen, and you can operate the VCR.

If you enter the PIN code incorrectly

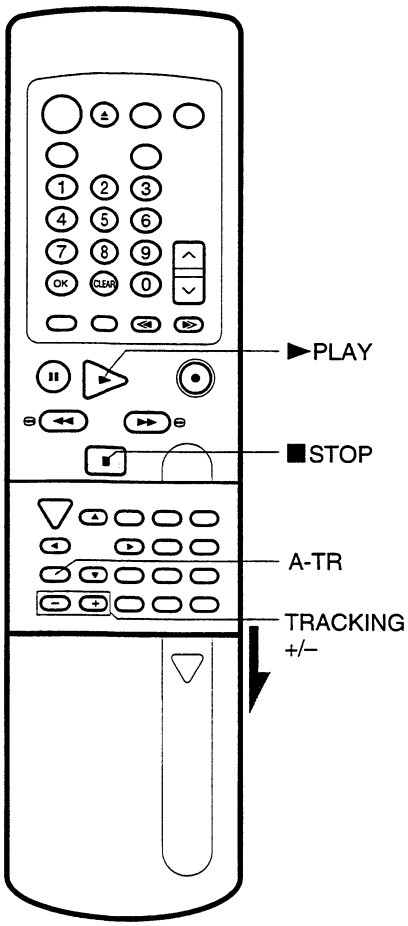
If you enter the incorrect PIN code, "PIN CODE ERROR" will appear on the TV screen.

If you enter the incorrect pin code more than 3 times, the security protect function will activate, and you will not be able to enter the pin code. The VCR will not be unlocked after it is locked even though you reconnect to the mains.

To enter the PIN code again

Reconnect the mains lead to the mains more than 10 minutes later after you disconnect it.

Playing back a tape

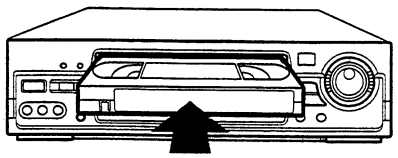


Before starting

Turn on the VCR and the TV and set the TV for VCR reception.

– When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the channel called AV or AUX.
– When they are connected with only the aerial cable, set the TV to the VCR output channel.

1 Insert a cassette.



The power turns on automatically.

Playback starts immediately if the erasure prevention tab has been removed from the cassette.

2 Press ► PLAY to start playback.

To stop playback

Press ■ STOP.

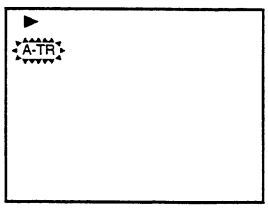
Notes

- When the tape reaches the end during playback, fast-forward, or forward search, the VCR automatically rewinds the tape to the beginning, ejects the cassette, and turns the power off.
- "A-TR" does not appear while playing unrecorded portions of tape.
- The VCR selects the tape speed, SP, LP, or EP (NTSC only) automatically.
- When a cassette is inserted, the clock display in the display window changes to tape counter display.

If you cannot get a clear playback picture

Although the VCR adjusts the tracking automatically, you may need to adjust the tracking manually if the tape quality is too poor.

While the VCR is adjusting the tracking automatically, "A-TR" (Automatic Tracking) flashes on the TV screen. It goes off after the adjustment is complete.
If the picture and the sound have noise, try manual tracking.



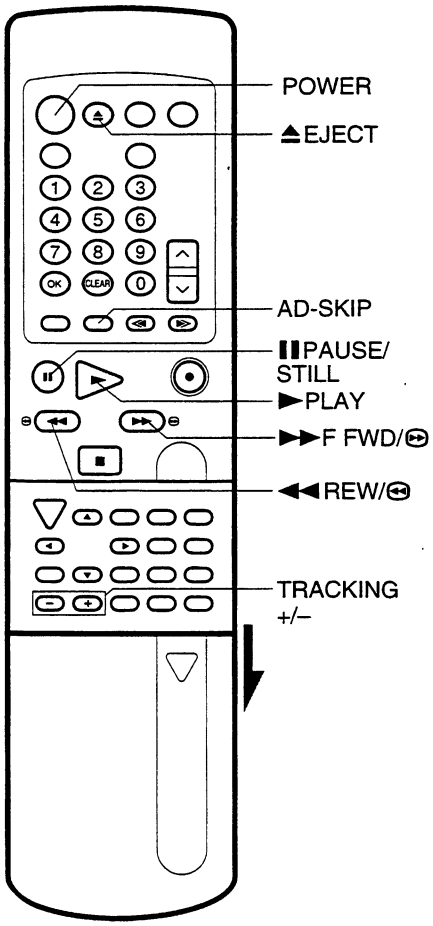
To adjust the tracking manually

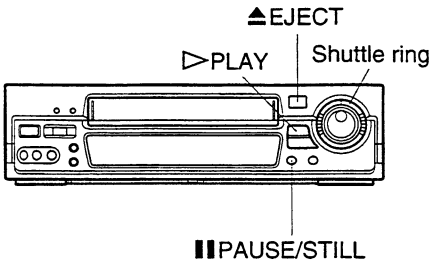
During playback, press TRACKING +/– repeatedly until you get the best possible picture.
(Automatic Tracking is cancelled and "A-TR" goes off.)

To return to automatic tracking

Press A-TR.

Additional functions





To	Press	To return to the original mode
Make a picture still	❚❚ PAUSE/STILL during playback	Press ► PLAY.
Fast-forward the tape	►► F FWD or turn the shuttle ring to the rightmost position during stop	—
Rewind the tape	◄◄ REW or turn the shuttle ring to the leftmost position during stop	—
Eject the cassette	⏏ EJECT	—
Search forward at high speed	►► F FWD momentarily during playback	Press ► PLAY.
Search forward at a lower speed	And hold down ►► F FWD	Release the button.
Search reverse at high speed	◄◄ REW momentarily during playback	Press ► PLAY.
Search reverse at a lower speed	And hold down ◄◄ REW	Release the button.

To skip an advertisement

Press AD-SKIP during playback. The VCR searches forward approximately 30 seconds of the recorded time.

Each press of the button changes the recorded time of forward search up to 3 minutes as follows:

Press	once	30 seconds
	twice	1 minute
	3 times	1 minute 30 seconds
	4 times	2 minutes
	5 times	2 minutes 30 seconds
	6 times	3 minutes

After forward search, VCR returns to the normal playback.
During AD-SKIP, the counter does not register blank portions with no recorded signal.

To play, eject, and switch off automatically after rewinding

1 **Press ◄◄ REW in stop mode.**

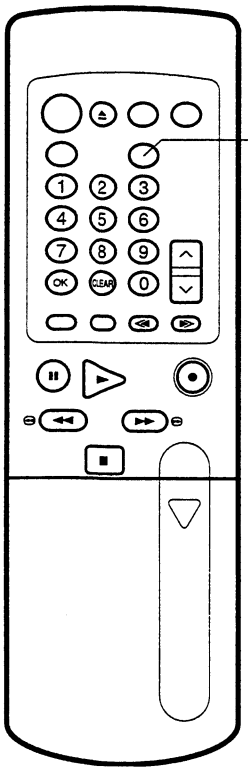
2 **Press ► PLAY, ⏏ EJECT, or POWER within two seconds.**
The VCR executes the command according to the pressed button after rewinding the tape to the beginning.

Tips

- If you press ⏏ EJECT while the power is off, the VCR automatically turns the power on, ejects the cassette, and turns the power off.
- You can adjust unstable pictures during still by pressing TRACKING +/– repeatedly.
- Depending on the tape, noise lines may appear, and the colour may fade during forward and reverse searches. You can move the noise lines by pressing TRACKING +/– repeatedly.

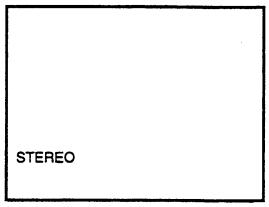
Notes

- If a still picture lasts for more than 5 minutes, the VCR will automatically enter stop mode to protect the tape.
- Noise lines may appear depending on the quality of the tape during still.
- Forward and reverse searches may not operate correctly on some TVs.
- The sound will be muted during still and forward and reverse searches.



Selecting stereo or bilingual sound

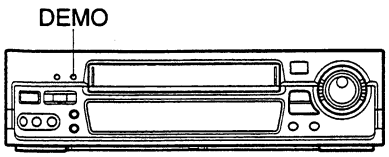
Press A. MONITOR (Audio Monitor) to select the sound you want.
Each press changes the indicator on the TV screen and the display window as follows:



Indicator		To listen to	
on the TV screen	**in the display window**	**Stereo programme**	**Bilingual programme**
STEREO	L R	Stereo	Mixed (main and sub) sound
LEFT	L	Left channel	Main sound
RIGHT	R	Right channel	Sub sound
NORMAL sound)	No indicator	Standard sound (usually the main	Standard sound

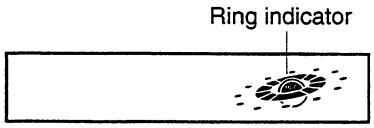
Notes

- When you play a tape recorded in mono, the sound is always played back in mono regardless of the Audio Monitor setting.
- When you set NICAM to OFF, the sound is always played back in standard (mono) regardless of the Audio Monitor setting.
- The sound indicator on the TV screen does not appear if the display mode is off.



Turning on the illumination in the display window – Function Guide

The illumination around the ring indicator in the display window shows the current tape operation. It cycles clockwise when the tape is moving forward, and cycles anti-clockwise when the tape is moving in reverse. The illumination cycling speed varies according to the speed of the tape movement.
The ring indicator flashes in pause and frame-by-frame playback, and the whole ring lights up in blue in stop mode with the cassette inserted.



To adjust the brightness of the display window
During power on, press DEMO on the VCR repeatedly. You can set the brightness of the display window to 4 grades.

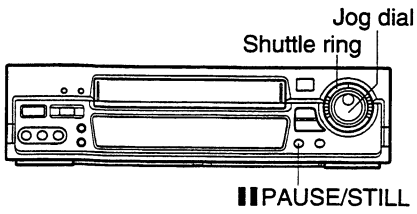
Playing back the NTSC tape

Tapes recorded in the NTSC colour system can be played back on this unit. If you play back the NTSC tape on this unit, you can watch the picture on a PAL colour system TV.

Notes

- The playback picture shrinks vertically to some degree.
- The playback picture may scroll vertically on the screen. If your TV has a V-HOLD control, adjust for a stable picture. If not, you cannot stop scrolling.
- Noise bar may appear, and the colour may fade depending on the tape during still, forward and reverse searches.
- Although NTSC tapes can be played back on a PAL TV, these tapes cannot be dubbed by a PAL system VCR.
- When you play back the tape recorded in the NTSC colour system at EP speed, only the sound of normal audio track is played back even though it is recorded in Hi-Fi mode, and the noise lines may appear during still.
- The high speed playback of the tapes recorded in NTSC colour system in forward direction is twice, 5 times and 9 times (EP only) faster and that in reverse direction is 3 times, 5 times and 9 times (EP only) faster than normal playback.

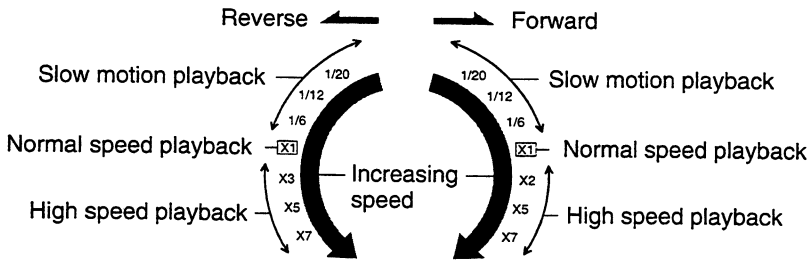
Various search functions

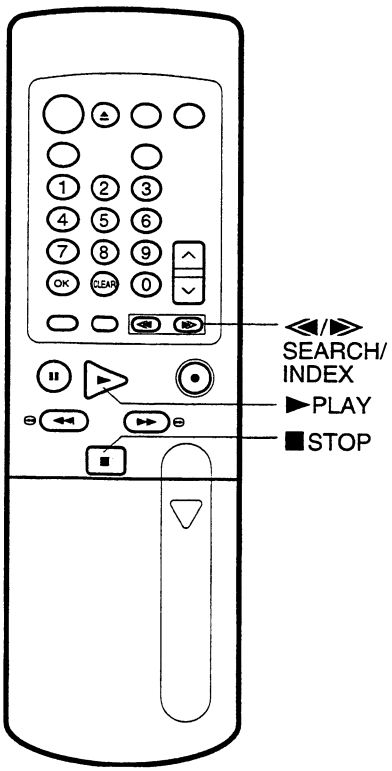


Playing at various speeds

To operate on the VCR

Turn the shuttle ring on the VCR right for various speeds playback during playback or still. Turn the shuttle ring left for reverse play.
The playback speed varies according to the extent you turn the shuttle ring as follows:





To operate with the remote control

Press ◀◀/▶▶ SEARCH/INDEX repeatedly during playback.
Each press varies the playback speed gradually as follows:

When you press ▶▶, the forward playback speed increases.
When you press ◀◀, the forward playback speed decreases until a still picture is obtained. When you press ◀◀ further, the reverse playback speed increases.
To decrease the reverse playback speed, press ▶▶.
To resume normal playback, press ▶ PLAY.

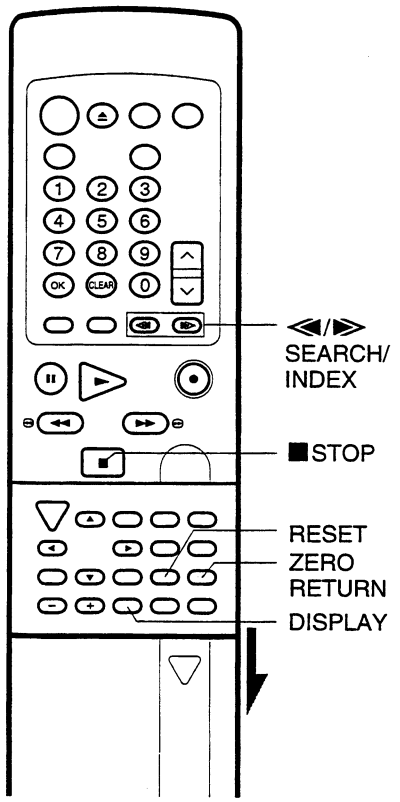
Notes

- If you continue slow motion playback for more than 5 minutes, the VCR will automatically enter stop mode to protect the tape.
- The sound will be muted during various speed playback.
- Noise lines may appear, and the colour may fade depending on the tape during various speed playback and frame-by-frame playback.

Playing frame-by-frame using the jog dial on the VCR

1 **Press II PAUSE/STILL on the VCR to pause the picture.**

2 **Spin the jog dial right (or left for reverse playback) with your finger in the hollow part of the jog dial.**
The playback speed varies according to the speed you spin the jog dial.



Tip

You can also see the tape counter on the TV screen. Press DISPLAY repeatedly until the tape counter appears. See page 38.

Notes

- When you insert a cassette, the tape counter is reset to "0:00:00."
- The tape counter does not work while playing unrecorded portions of the tape.

Tip

You can also use the display window to check the index number you specified. The index number will flash in the display window when you press ◀◀/▶▶ SEARCH/INDEX.

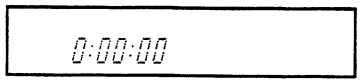
Notes

- Index signals should be at least 1 minute apart in SP mode and 2 minutes apart in LP or EP (NTSC only) mode. Otherwise, the VCR cannot detect them properly.
- Index signals may not be detected on damaged or worn out tapes.
- Index signals may not be detected at the beginning of recordings where the tape speed is different from the previous programme.
- The index signal at the beginning of a recorded tape may not be detected.
- The index search indicator and count number do not appear if the display mode is off.

Rewinding or fast-forwarding to a specific point – Zero Return

1 Press RESET at the point you want to locate later.

The tape counter in the display window resets to "0:00:00."



2 After playback, press ■ STOP, then ZERO RETURN.

The tape automatically stops when the tape counter returns to about "0:00:00."

To cancel Zero Return

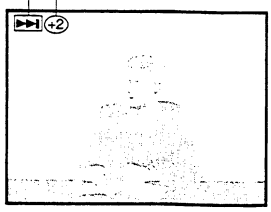
Press ■ STOP.

Searching with the index function – Index Search

The VCR automatically marks an index signal on the tape each time recording starts. You can use these signals to find the beginning of any recording.

Press ▶▶ SEARCH/INDEX (for succeeding programmes) or ◀◀ SEARCH/INDEX (for preceding programmes) repeatedly during stop until the index number (up to 20) you want appears on the TV screen.

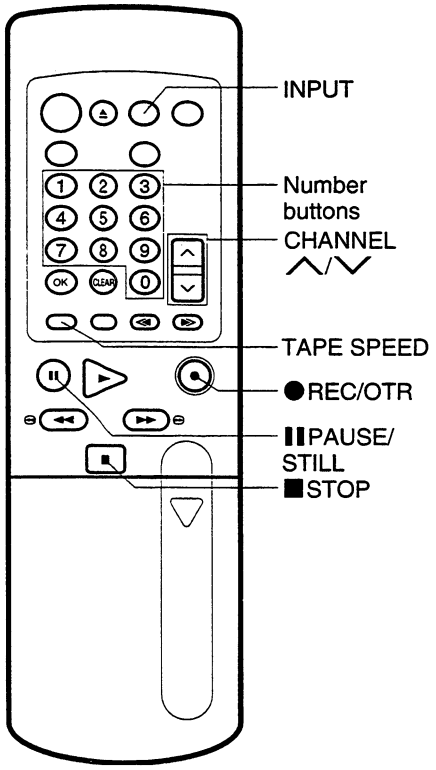
I◀◀ or ▶▶I appears.
Index number



The VCR starts searching.

Playback starts automatically from the beginning of the specified recording.

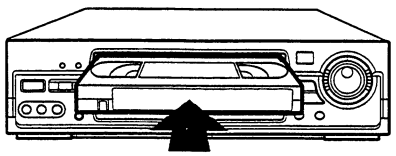
Recording a TV programme



Before starting

- Turn on the VCR and the TV and set the TV for VCR reception.
  - When the VCR and the TV are connected with a 21-pin scart cable, set the TV to the channel called AV or AUX.
  - When they are connected with only the aerial cable, set the TV to the VCR output channel.
- If the VCR is connected to a satellite receiver or cable box, make sure to turn them on.

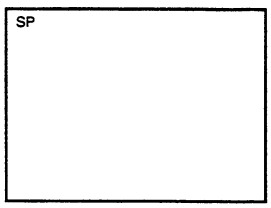
1 Insert a cassette with its erasure prevention tab in place.



The power turns on automatically.

2 Press TAPE SPEED to select the tape speed, SP or LP.

LP provides twice as much recording time as SP, although SP produces better picture and audio sounds.



3 Press CHANNEL ∧/∨ repeatedly or the number buttons to select the channel you want to record.

When selecting a number less than 10 using the number buttons, press 0 to enter the tens digit and then press the buttons 1 through 9 to enter the ones digit.

4 Press ● REC/OTR to start recording.

"INDEX" flashes for a few seconds on the TV screen. See page 23.

To stop recording

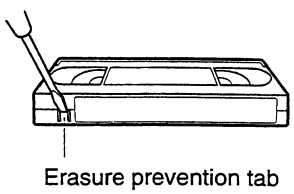
Press ■ STOP.

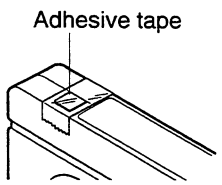
To pause recording

Press ❚❚ PAUSE/STILL. To resume recording, press ● REC/OTR.

To prevent an accidental recording

Break off the erasure prevention tab on the back edge of the cassette. To record over the tape again, cover the gap with adhesive tape.



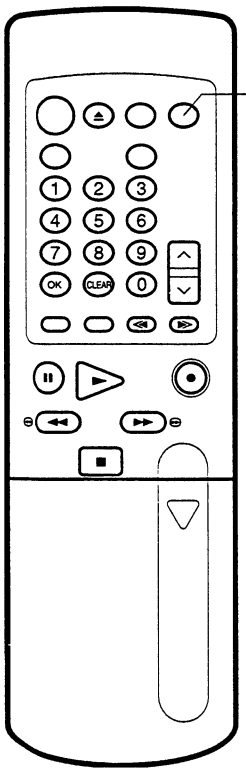


Tips

- If you want to record the programme through the line input, press CHANNEL ∧/∨ continuously or INPUT to display "AV1" (from AV1 IN/ OUT [TV] connector at the back), "AV2" (from AV2 IN [DECODER] connector at the back), or "LINE" (from the AUDIO/VIDEO IN jacks in front) on the TV screen in step 3.
- If you want to start recording during playback, press ❚❚ PAUSE/STILL during playback, then press ● REC/ OTR twice.
- You can select the stereo or bilingual sound while recording without affecting the recorded programme. However, you can select NORMAL only when the NICAM programme is received. See page 20.

Notes

- If you try to record on a cassette without its erasure prevention tab, the VCR will eject the cassette.
- If recording pause lasts for more than 5 minutes, the VCR will automatically enter stop mode to protect the tape.



Playing back the portion you just recorded – One-Touch Playback

Using One-Touch Playback after VIDEO Plus+ (page 28) or timer (page 31) is convenient. You can make timer recordings and play back only the portion you just recorded with the timer by pressing a single button later.

1 **Stop recording (when recording without timer).**

ONE-TOUCH PLAYBACK on the VCR lights.

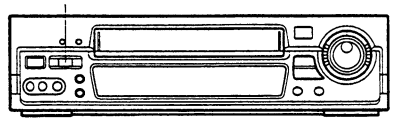
If another operation button is pressed after you stop recording, One-Touch Playback will be cancelled.

2 **Press ONE-TOUCH PLAYBACK on the VCR or OTPB on the remote control.**

The tape rewinds to the start of the recorded portion and begins playback.

When you set the timer for more than two timer programmes

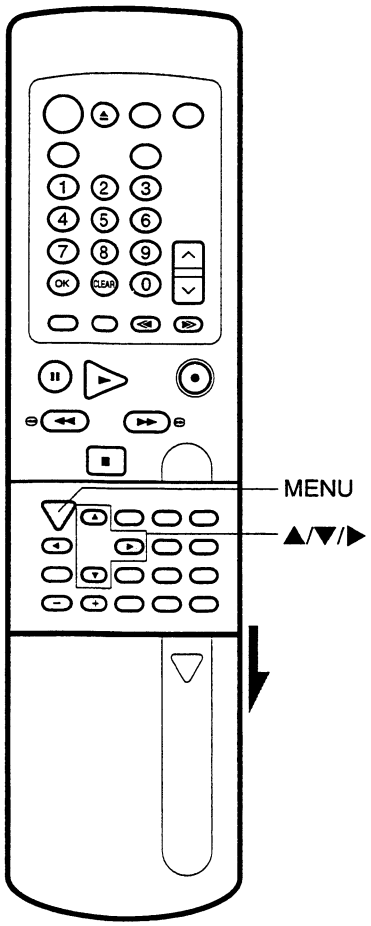
The VCR starts playing back from the earliest one when you use One-Touch Playback.
To find the beginning of the second (or later) programme, use Index Search (page 23).



Notes

- One-Touch Playback does not work for recordings of less than 1 minute in SP mode and 2 minutes in LP mode.
- If you set the VCR to power save mode while the ONE-TOUCH PLAYBACK indicator is lit, the indicator will turn off. If you cancel the power save mode, the ONE-TOUCH PLAYBACK indicator lights up and you can use One-Touch Playback.

Recording NICAM stereo and bilingual programmes



This VCR receives and records stereo and bilingual programmes in NICAM system automatically.
When the VCR receives NICAM broadcasts, "NICAM" appears in the display window. If the broadcast is stereo, "STEREO" appears in the display window. If the broadcast is bilingual, "BIL" appears in the display window.

To record NICAM stereo and bilingual programmes

NICAM broadcasts are recorded according to the following table:

Track	Sound recorded	
	Stereo	Bilingual
Hi-Fi audio Left channel	Left channel	Main sound
Hi-Fi audio Right channel	Right channel	Sub sound
Normal audio (mono)	Standard (usually the mixed sound of the left and right channels)	Standard (usually the main sound)

To select the sound when playing back a NICAM-recorded tape

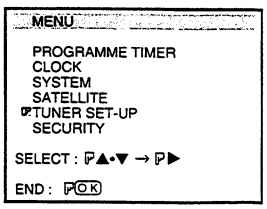
See "Selecting stereo or bilingual sound" on page 20.

If the NICAM sound has noise

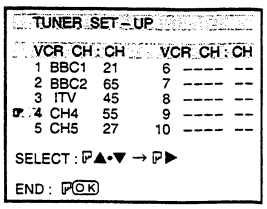
Select the TV station which has noisy NICAM sound, then set NICAM to OFF.

1 **Press MENU.**

2 **Press ▲/▼ to select TUNER SET-UP, then press ▶.**

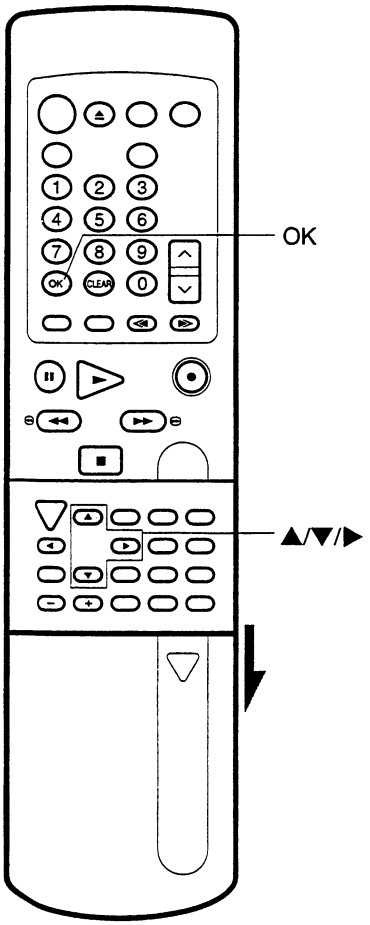


3 **Press ▲/▼ to select the TV station for which you want to cancel NICAM setting.**

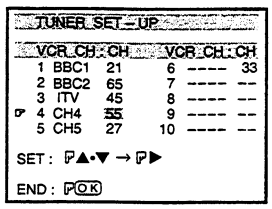


Note

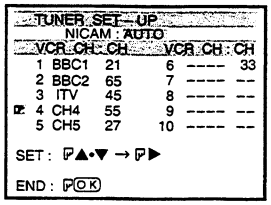
You cannot select TUNER SET-UP in step 2 when the VCR is in AV1, AV2 or LINE mode.



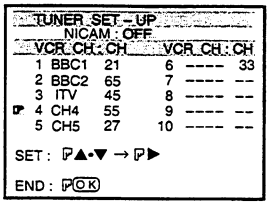
4 **Press ▶ repeatedly to highlight the channel number.**



5 **Press ▶.**
"NICAM:AUTO" appears.



6 **Press ▲/▼ to display OFF.**

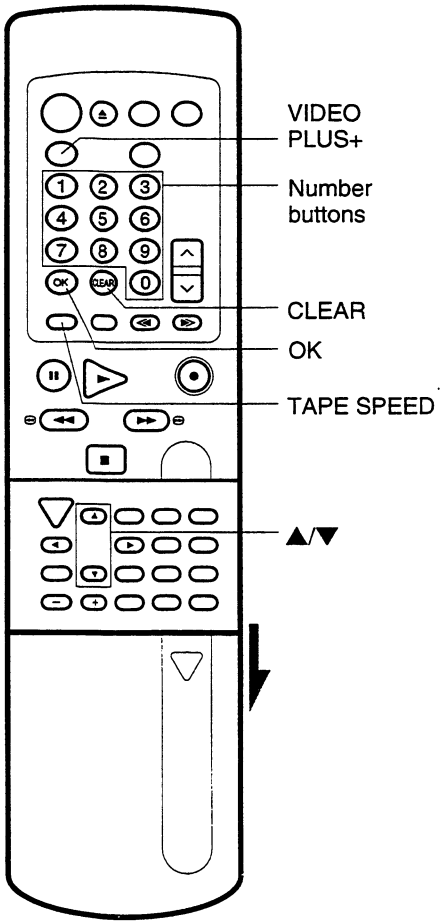


7 **Press ▶ to return to the screen on step 3.**

8 **If you want to cancel another NICAM setting, repeat steps 3 through 7.**

9 **Press OK to return to the normal screen.**

Setting the timer with VIDEO Plus+



You can greatly simplify timer recordings with VIDEO Plus+. Just enter VIDEO PlusCode, a number assigned to each TV programme, and the VCR will set the timer recording automatically. You can find VIDEO PlusCodes in most TV guide magazines.
You can set up to six programmes.

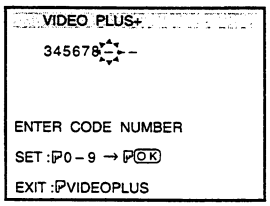
Before setting the timer

- Check that the VCR clock is set correctly.
- Check that the correct channel position is assigned to the correct TV station (see page 9).
- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- To set the timer for a satellite or cable TV channel, check that the satellite (or cable) receiver is turned on, the channel you want to record is selected, and the channel position to which the satellite receiver or cable box is connected is selected in the satellite menu. See page 13.

1 Press VIDEO PLUS+.

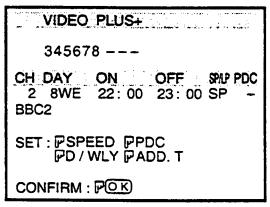
2 Enter the VIDEO PlusCode of the TV programme you want to record using the number buttons.

If you make a mistake, press CLEAR, then enter the correct number.

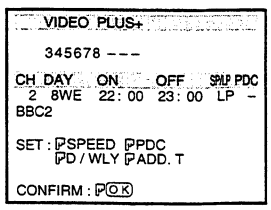


3 Press OK.

- The following timer information appears on the TV screen:
  Channel position number and TV station's name, date, start and end times, tape speed, and PDC information (from the left).
- If you want to change the settings here, see "Changing the settings" on page 30.



4 Press TAPE SPEED to select SP or LP.

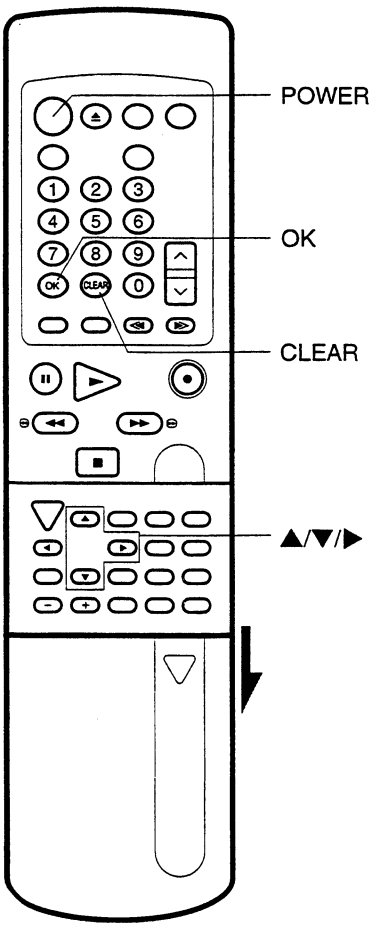


Tip

If "VIDEO PLUS+ FULL" and the timer programme list appear for a few seconds on the TV screen in step 1, cancel an unnecessary programme.

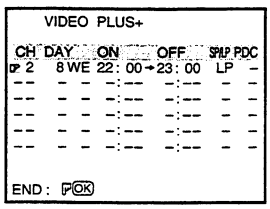
Notes

- Even if the power supply is interrupted, the preset programmes remain in the VCR memory. The VCR will select and restore only the active programmes in the memory automatically.
- VIDEO Plus+ will add a safety margin to the set recording time. The VCR will begin recording 2 minutes before, and continue recording for 3 minutes after the set recording time except when PDC is on or another timer recording overlaps the safety margin.
- The cable TV or satellite programmes will be recorded through channel 6 when the VCR is connected to the cable TV or satellite receiver with the aerial cable. They will be recorded through AV2 IN [DECODER] when connected with 21-pin scart cable.

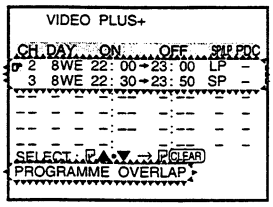


5 **Check that the timer settings are correct, then press OK.**

- The timer programme list sorted by the start time appears.



- If there are any overlapped programmes, the TV screen turns red and the overlapped programmes and "PROGRAMME OVERLAP" at the bottom of the screen flash.
  In this case, press ▲/▼ to select the overlapped programme, and press CLEAR to cancel.



6 **If you want to set another programme, repeat from step 1.**

7 **Press OK to return to the normal screen.**

8 **Press POWER to turn off the unit.**

- ⏲ appears in the display window, and the VCR stands by for timer recording.
- If ⏲ flashes, a cassette is not inserted or the cassette's erasure prevention tab is removed.

To cancel a programme

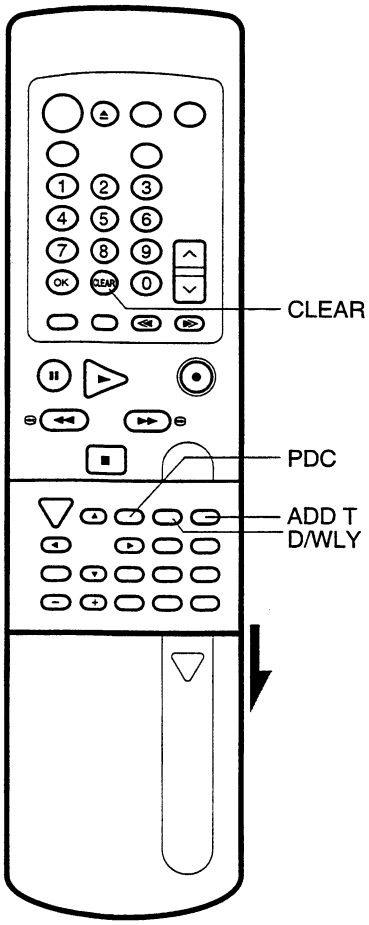
Press ▲/▼ to select PROGRAMME TIMER in the menu, and press ▲/▼ to select an unnecessary programme, then press CLEAR to cancel.

Tip

To confirm the settings, press ▲/▼ to select PROGRAMME TIMER in the menu. Then press ▶ to display the timer programme list. Press OK to return to the normal screen.

Note

During Timer recording, when the tape reaches the end, ⏲ flashes in the display window.



Notes

- When the VCR receives PDC broadcasts, "PDC" appears in the display window.
- If you set PDC to ON, "PDC" appears in the display window at the same time on the day when the timer recording is set to begin.
- If the actual broadcasting times of timer recordings overlap (regardless of whether they are PDC controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the PDC signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC signal, the timer recording will be performed in the normal mode (without PDC) even if it was programmed for PDC.
  In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.
- PDC programming is not possible in conjunction with satellite programmed recording.

Changing the settings

You can change any of the settings while in step 3 on page 28.

To change the fixed date recording to daily/weekly recording

If you want to record the same programme everyday (from Monday to Friday), press D/WLY (Daily/Weekly) repeatedly until "MO-FR" appears.

```
VIDEO PLUS+
   345678 ---
CH DAY   ON    OFF   SP/LP PDC
 2MO-FR 22:00 23:00 LP  -
BBC2
SET : PSPEED PPDC
      PD/WLY PADD.T
CONFIRM : POK
```

To record it every week, press D/WLY repeatedly until "E- the day of the week" appears. (e.g. "E-WE" represents Every Wednesday.)

```
VIDEO PLUS+
   345678 ---
CH DAY   ON    OFF   SP/LP PDC
 2 E-WE 22:00 23:00 LP  -
BBC2
SET : PSPEED PPDC
      PD/WLY PADD.T
CONFIRM : POK
```

To extend the recording time

Press ADD T (Add Time) repeatedly. Each press extends the recording time in 15-minute increments to a maximum of 8 hours.
To cancel the setting, press CLEAR.

```
VIDEO PLUS+
   345678 ---
CH DAY   ON    OFF   SP/LP PDC
 2  8WE 22:00 23:00 LP  -
BBC2          +1H30M
SET : PSPEED PPDC
      PD/WLY PADD.T
CONFIRM : POK
```

To record with the PDC (Programme Delivery Control) system

The PDC system starts recording when it picks up a special signal transmitted by the broadcaster with the TV programme—even if the TV programme starts early, late or runs on longer than scheduled. Press PDC to display "P" for recording with PDC.

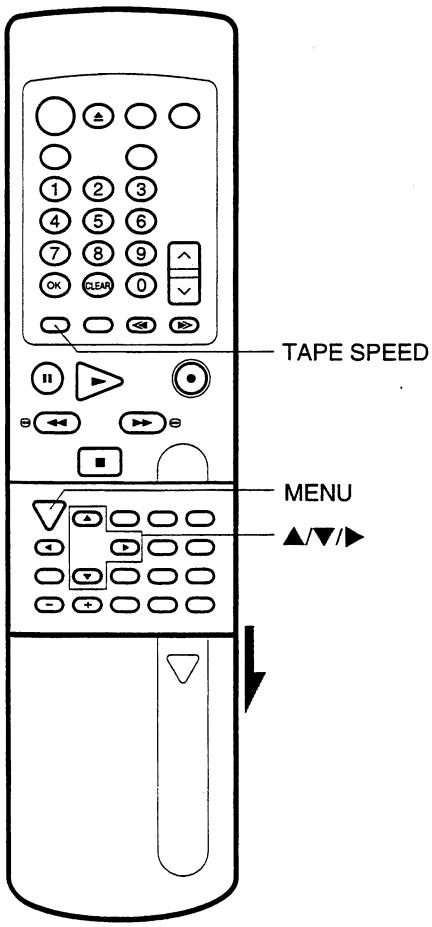
```
VIDEO PLUS+
   345678 ---
CH DAY   ON    OFF   SP/LP PDC
 2  8WE 22:00 23:00 LP  P
BBC2
SET : PSPEED PPDC
      PD/WLY PADD.T
CONFIRM : POK
```

Important

Only BBC2 and Channel 4 currently broadcast PDC signal. Do not set PDC to ON for a non-PDC channel.

If you try to record a programme of a broadcaster who transmits no PDC signal with PDC set to ON, the programme will be successfully recorded but the timer programme will not be removed from the timer programme memory soon. This means that after recording 6 programmes from the broadcaster who transmits no PDC signal with PDC set to ON, your timer programme memory will become full and you will be unable to set any more timer recordings until you cancel these old timer programmes.

Setting the timer manually



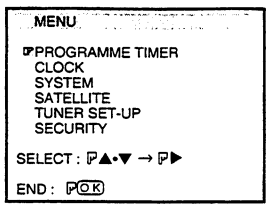
If you cannot use VIDEO Plus+, you can set the timer manually.
You can set up to six programmes within one month of the current date.

Before setting the timer

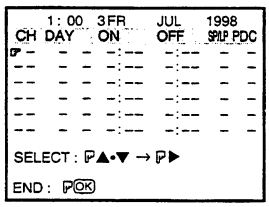
- Check that the VCR clock is set correctly.
- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- To set the timer for a satellite or cable TV channel, check that the satellite (or cable) receiver is turned on and the channel you want to record is selected.

1 **Press MENU.**

2 **Press ▲/▼ to select PROGRAMME TIMER, then press ▶.**

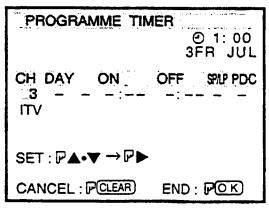


3 **Press ▲/▼ to select the line on which no programme has been set, then press ▶.**



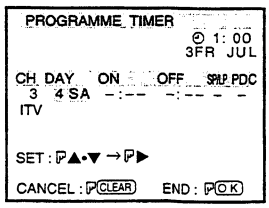
4 **Press ▲/▼ to set the channel position, then press ▶.**

If you set the channel position selected under SATELLITE CONNECTION, "SAT" will appear beneath the channel position number.

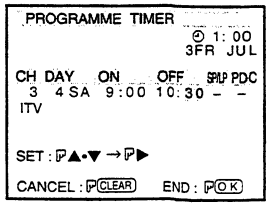


5 **Press ▲/▼ to set the date, then press ▶.**

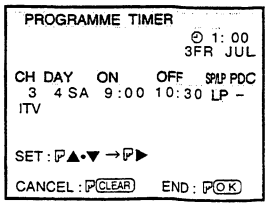
If you want to set daily/weekly recordings, see page 32.



6 **Set the start time (hours and minutes), and end time (hours and minutes) in the same way as in step 5.**



7 **Press ▲/▼ (or TAPE SPEED) to select SP or LP, then press ▶.**

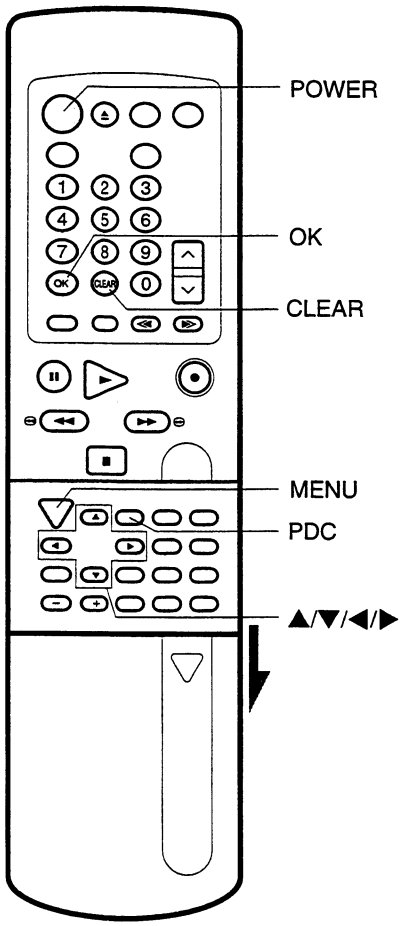


Tip

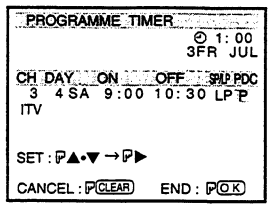
If you want to record the programme through the line input, press ▲/▼ to display "A1" (from AV1 IN/OUT [TV] connector at the back), "A2" (from AV2 IN [DECODER] connector at the back), or "LI" (from the AUDIO/VIDEO IN jacks in front) in step 4 instead of the channel position.

Notes

- Even if the power supply is interrupted, the preset programmes remain in the VCR memory. The VCR will select and restore only the active programmes in the memory automatically.
- You cannot set the timer with the PDC function when you set the channel position to the "LI" in step 4.



8 **Press ▲/▼ (or PDC) to display "P" if you want to set the timer with the PDC function, then press ▶.**



- See "To record with the PDC (Programme Delivery Control) system" on page 30.

  Only BBC2 and Channel 4 currently broadcast PDC signal. Do not set PDC to ON for a non-PDC channel.
- The timer programme list sorted by the start time appears.

9 **If you want to set another programme, repeat steps 3 through 8.**

10 **Press OK to return to the normal screen.**

11 **Press POWER to turn off the VCR.**

- ⏲ appears in the display window and the VCR stands by for timer recording.
- If ⏲ flashes, a cassette is not inserted or the cassette's erasure prevention is removed.

To set the daily/weekly timer

In step 5, press ▼ repeatedly before pressing ▶.
The setting changes as follows:

The current day → MO-FR (Monday to Friday)
↑ ↓
⋮ E-DAY (Everyday)
↑ ↓
one month later E-SA (Every Saturday)
minus two days ↓
↑ E-FR (Every Friday)
one month later ↓
minus one day ⋮
↑
E-SU (Every Sunday) ←

Press ▲ to change the display in reverse order.

After setting, press ▶.

To correct the data while setting

Press ◀/▶ until the item you want to correct highlights, then press ▲/▼ to set the correct data.

If the programme overlaps another

TV screen turns red and the overlapped programmes and "PROGRAMME OVERLAP" at the bottom of the screen flash.
In this case, press ▲/▼ to select the overlapped programme, and press CLEAR to cancel.

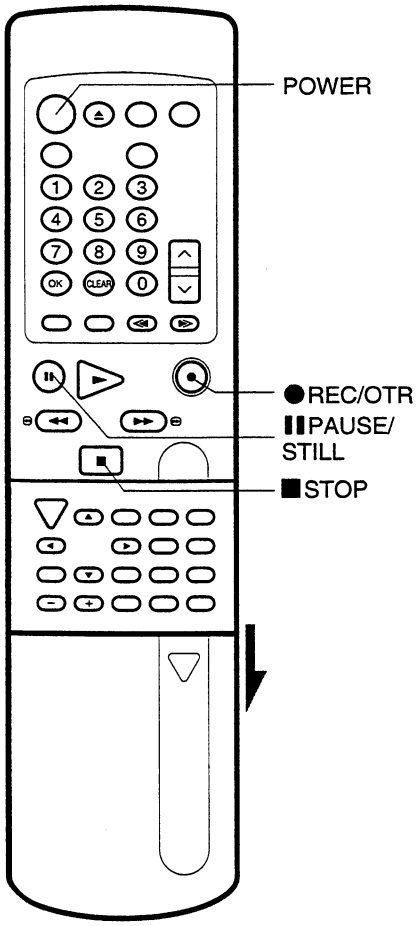
Tip

To confirm the settings, press ▲/▼ to select PROGRAMME TIMER in the menu. Then press ▶ to display the timer programme list. Press OK to return to the normal screen.

Notes

- When setting the timer with PDC, enter the start and finish times exactly as indicated in the TV programme guide, otherwise the PDC function will not work.
- During Timer recording, when the tape reaches the end, ⏲ flashes in the display window.
- If you set PDC to ON, "PDC" appears in the display window at the same time on the day when the timer recording is set to begin.
- PDC programming is not possible in conjunction with satellite programmed recording.

Recording with One-Touch Recording



You can immediately start recording the current channel for a specified time with One-Touch Recording.

Before setting the timer

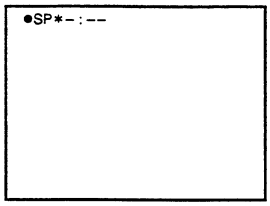
- Insert a cassette with its erasure prevention tab in place. Make sure the tape is longer than the recording time.
- Turn on the TV and set it for VCR reception.
- Select the channel to record and tape speed.

1 **Press ● REC/OTR.**

The VCR starts recording.

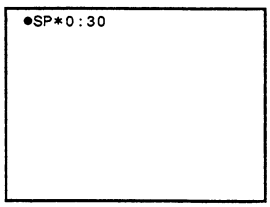
2 **Press ● REC/OTR again.**

"✻ – : – –" appears on the TV screen and "– 0:30" flashes in the display window.



3 **Within 5 seconds, press ● REC/OTR repeatedly to set the recording duration.**

Each press changes the recording duration on the TV screen in the following way:



0:30 → 1:00 → 1:30 → ... → 3:30 → 4:00
↑— ✻ – : – – ← Normal recording ←┘

The recording time indicator counts down to "0:00."

The recording stops at "0:00" and the VCR turns off.

To stop, pause, or turn off the power while recording

Press ■ STOP, ❚❚ PAUSE/STILL, or POWER.

To extend the recording duration while recording

Press ● REC/OTR until the new duration you want appears.

Tip

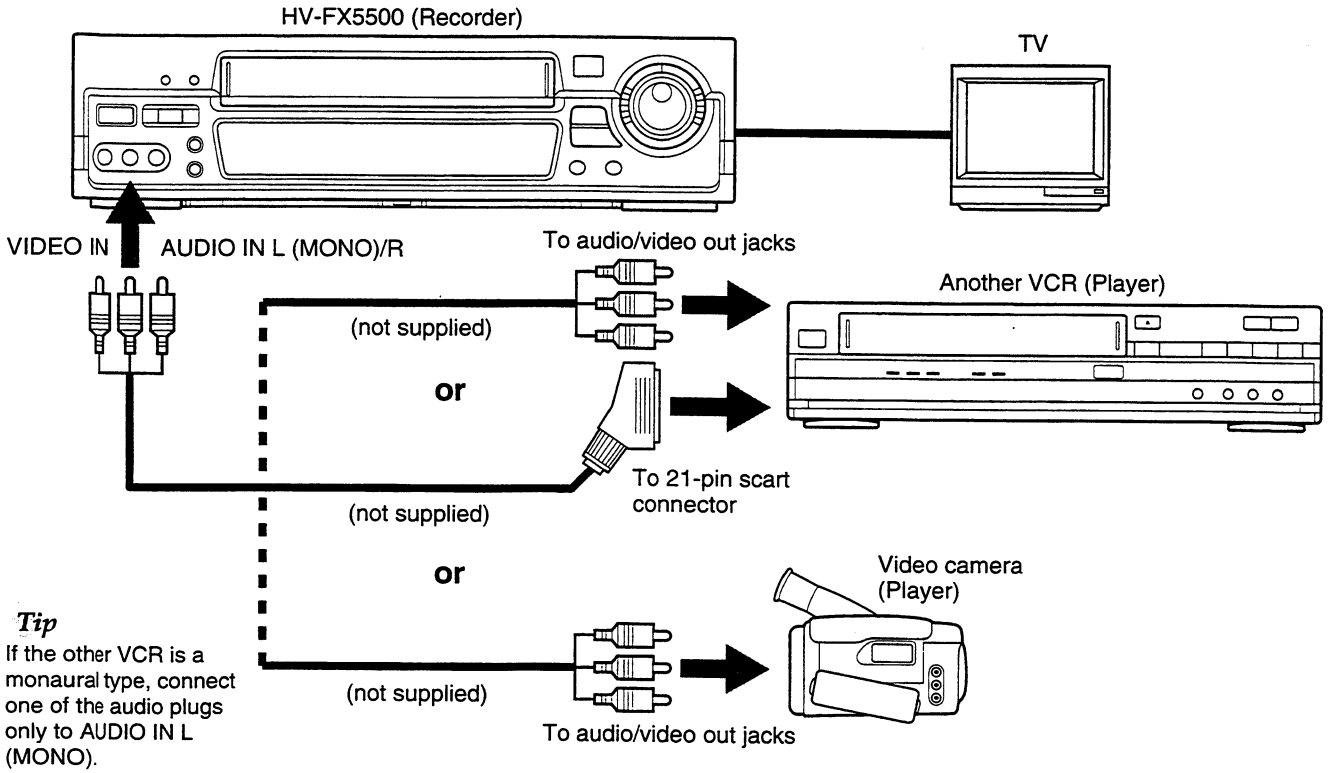
If you press ● REC/OTR repeatedly while the POWER SAVE indicator is lit, the VCR enters into the power save mode after finishing the One-Touch Recording. If you want to perform One-Touch Playback after One-Touch Recording, you have to cancel the power save mode before starting One-Touch Recording.

Notes

- If the tape reaches the end during One-Touch Recording, ◴ flashes in the display window.
- When timer recording is in progress, if you try to programme another One-Touch Recording for later, ◴ will appear to indicate that your prior recording is still in progress.

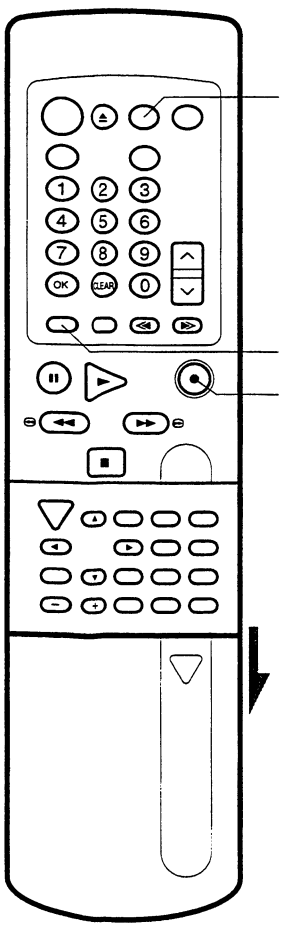
Dubbing

Connecting with another VCR



Tip

If the other VCR is a monaural type, connect one of the audio plugs only to AUDIO IN L (MONO).



Operation

Before dubbing

Turn on the TV, and set it for VCR reception.

1 **Insert a pre-recorded source cassette into another (playback) VCR.**

2 **Insert a blank cassette with its erasure prevention tab in place into your HV-FX5500 (recording).**

3 **Press INPUT to display "LINE" on the TV screen.**

4 **Press TAPE SPEED to select SP or LP.**

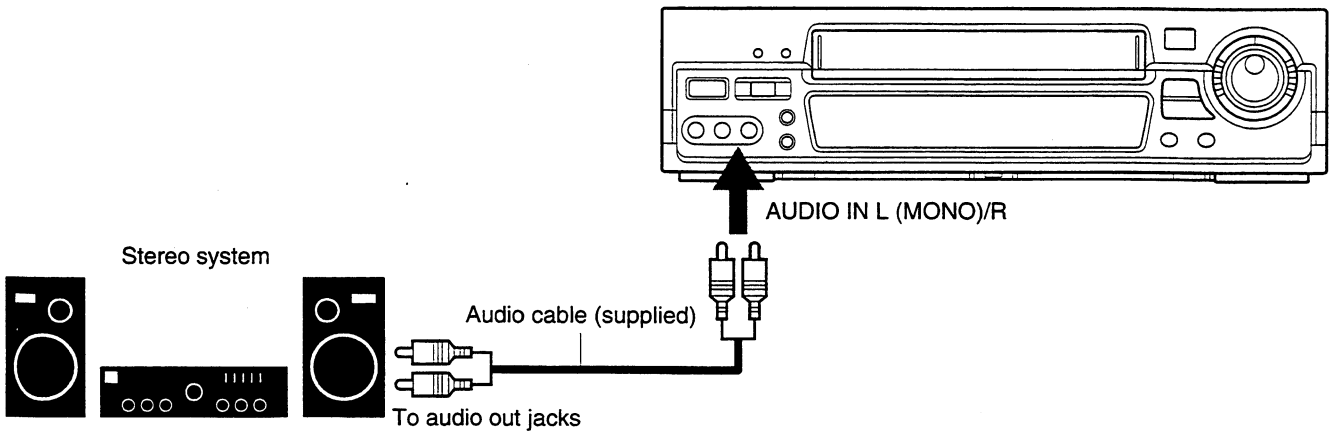
5 **Set the other VCR to playback.**

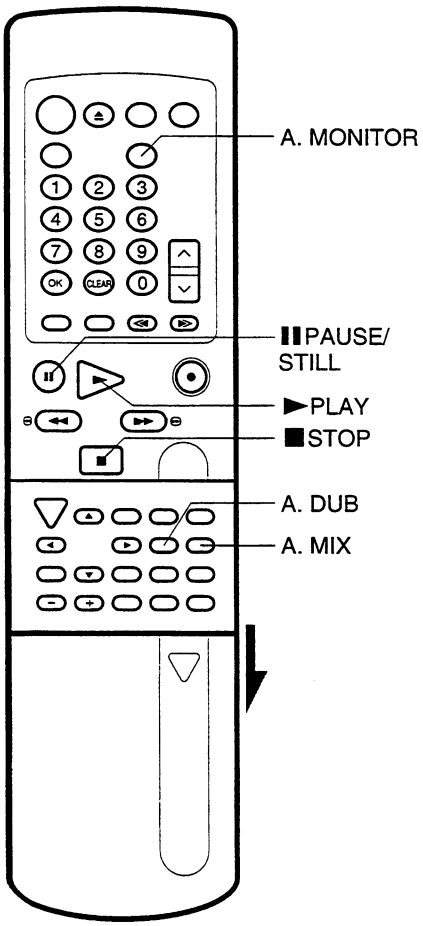
6 **Press ● REC/OTR on the recording VCR.**

Audio dubbing

You can add music from a stereo system onto the normal audio track. The monaural sound previously recorded is replaced while the original picture and Hi-Fi sound on the Hi-Fi track are retained.

Connecting with a stereo system





Operation

Before audio dubbing
Turn on the TV and set it for VCR reception.

1 **Turn on the stereo system, prepare the audio source, and set it to the playback standby mode.**

2 **Insert a Hi-Fi pre-recorded cassette with its erasure prevention tab in place into your VCR.**

3 **Press ► PLAY, then press ❚❚ PAUSE/STILL at the point you want to start audio dubbing.**

4 **Press A. DUB to set the VCR to the audio dubbing stand-by mode.**
"A-DUB" and "M" appear in the display window.

5 **Start playing the audio source and press A. DUB again at the same time to start audio dubbing.**
"⬬" appears on the TV screen and the audio dubbing begins.

6 **Press ■ STOP at the point you want to stop audio dubbing.**

To listen to the audio dubbed tape

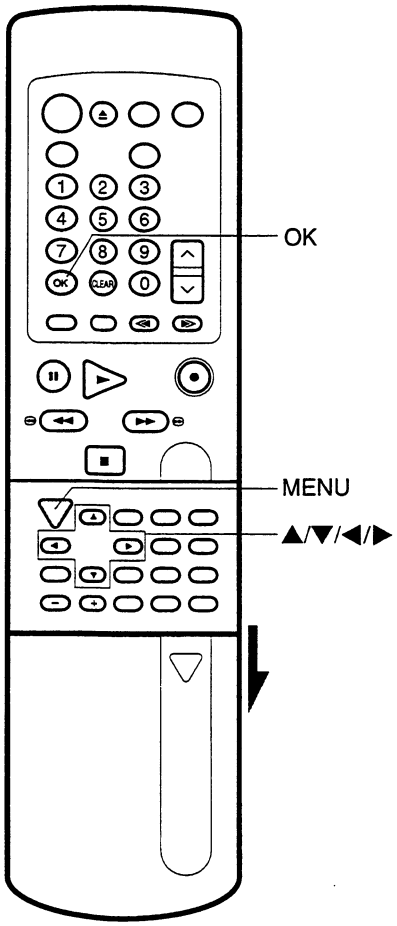
If the previous recording was in stereo, both the audio dubbing recording and the original sound recording are saved on the tape.

- To listen to the audio dubbing recording, press A. MONITOR to select NORMAL on the TV screen.
- To listen to the original sound recording, press A. MONITOR to select STEREO on the TV screen.
- To listen to both audio dubbing and original recording at the same time, press A. MIX to display "M" in the display window.
- To cancel the Audio Mix function, press A. MIX to turn off "M" in the display window.

Notes

- If an audio dubbing is made with a monaural prerecorded tape, the previously recorded sound is erased.
- You cannot conduct audio dubbing with a cassette whose erasure prevention tab is removed.
- You can audio dub only from the front AUDIO/VIDEO IN jacks.

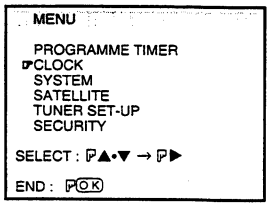
Setting the clock manually



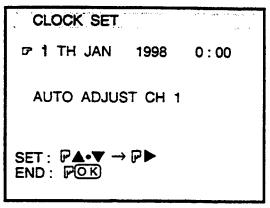
You must set the date and time manually for timer recordings if Auto Set-Up did not set them correctly.

1 **Press MENU.**

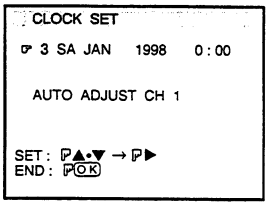
2 **Press ▲/▼ to select CLOCK, then press ▶.**



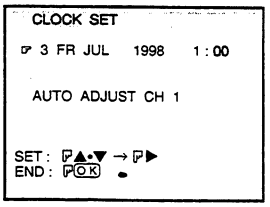
3 **Press ▶ to highlight the day.**



4 **Press ▲/▼ to set the day, then press ▶.**



5 **Set the month, year, hours and minutes as in step 4.**



6 **Check that AUTO ADJUST CH is set to the channel position of TV station with the clock adjustment signal.**

If not, press ▼ to select AUTO ADJUST CH, then press ▲/▼ to select the correct channel position.

7 **Press OK to start the clock.**

The normal screen returns.

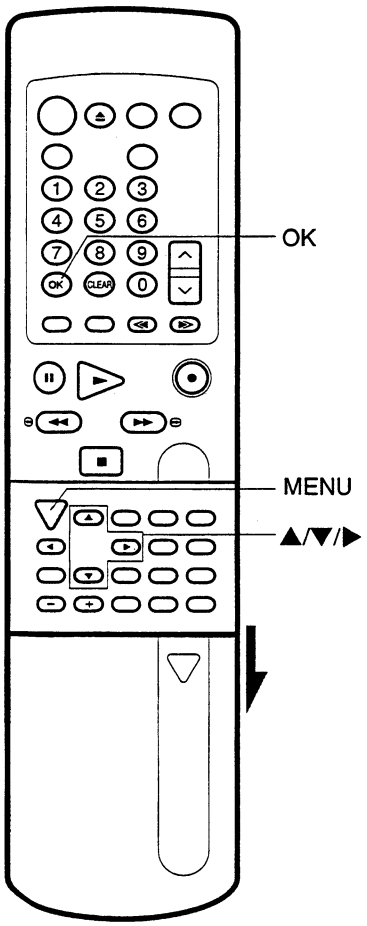
Notes

- The VCR will automatically correct the clock 4 times a day (4, 7, 12 and 18 o'clock) once AUTO ADJUST CH is set. This function does not work when watching a TV channel which is not an AUTO ADJUST CH, playing back a tape, or recording.
- If the VCR cannot receive the clock adjustment signal, "0:00" appears on the CLOCK SET menu. If the reception signal is weak, the VCR may reset the clock incorrectly. In these cases, set the AUTO ADJUST CH to "– –" by pressing ▲/▼, then set the clock manually.
- The date can be set from A.D. 1998 to A.D. 2028.

To correct the digits while setting

Before pressing OK, press ◀/▶ to select the item you want to correct. Reset the digits using ▲/▼.

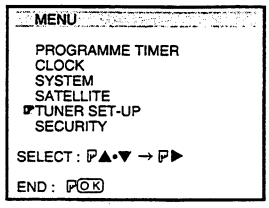
Setting the VCR channels manually



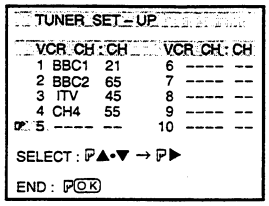
You must set the VCR channels manually for recording TV programmes, if Auto Set-Up does not set them correctly.

1 **Press MENU.**

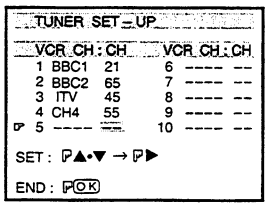
2 **Press ▲/▼ to select TUNER SET-UP, then press ▶.**



3 **Press ▲/▼ to select the channel position.**

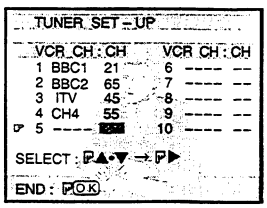


4 **Press ▶ to highlight the bars under CH.**



5 **Press ▲ to scan up (▼ to scan down) the TV stations so that it corresponds to the following chart:**

Channel position	TV station
1	BBC1
2	BBC2
3	ITV
4	CH4
5	CH5
6	Satellite/Cable TV (Set SKY NEWS if the satellite receiver or cable TV is connected with only the aerial cable.)



- The transmission channel number appears.
- If the TV station is received, the VCR will stop scanning and display the TV programme. If the displayed programme is not the TV station you want to preset, press ▲/▼ to scan the another TV station.

6 **Press ▶ twice to return to the screen in step 3.**

7 **Repeat steps 3 through 6 until all the required stations are set.**

8 **Press OK to return to the normal screen.**

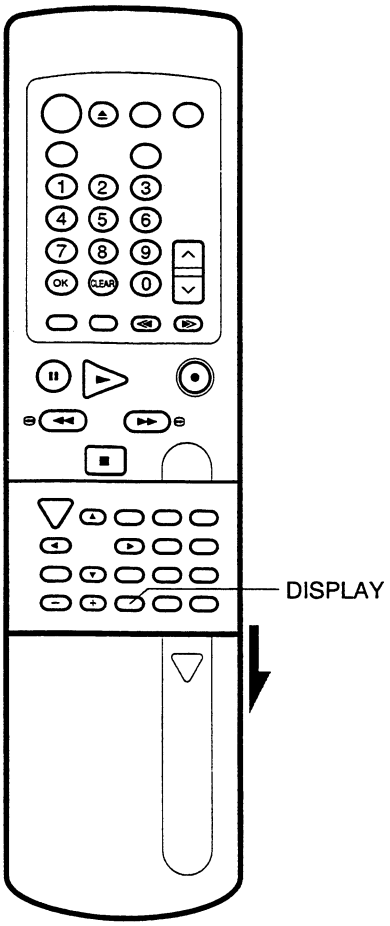
Tip

If you receive SKY NEWS on CH6, "SAT" is displayed as the TV station's name. If you are using cable TV, enter the proper station's name manually. See page 12.

Note

You cannot select TUNER SET-UP when the VCR is in AV1, AV2 or LINE mode.

On-screen function display



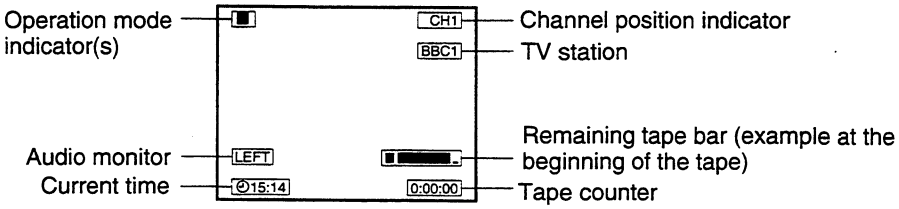
Important Note

When you record a video signal output from this VCR onto another VCR, turn off the on-screen function display. Otherwise, the mode indicators displayed on the TV screen will be recorded on the tape.

Note

The indicators will be continuously displayed while Index Search or Zero Return is operating even if Auto Display has been selected.

Identifying the on-screen display items



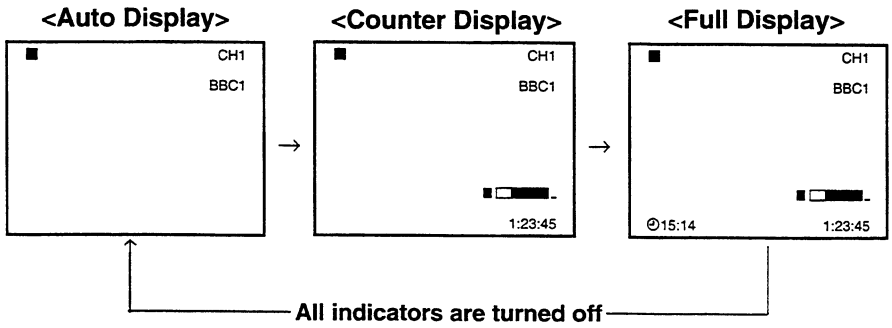
Operation mode indicator

The current tape operation is indicated with the following marks:

► SP	: Play, tape speed
◄◄	: Rewind
►►	: Fast-forward
⏏	: Cassette eject
● SP	: Recording, tape speed
●❚❚ SP	: Recording pause, tape speed
0 ⮌ ►►(◄◄)	: Fast-forward (or rewind) with the Zero Return function
◄◄ → ►(⏏,⏻)	: Current and memorized successive operation
►►❙+1 (❙◄◄–1)	: Index search (index back search) and the count number
■	: Stop
◓ SP	: Audio Dubbing, tape speed

Changing the on-screen function display

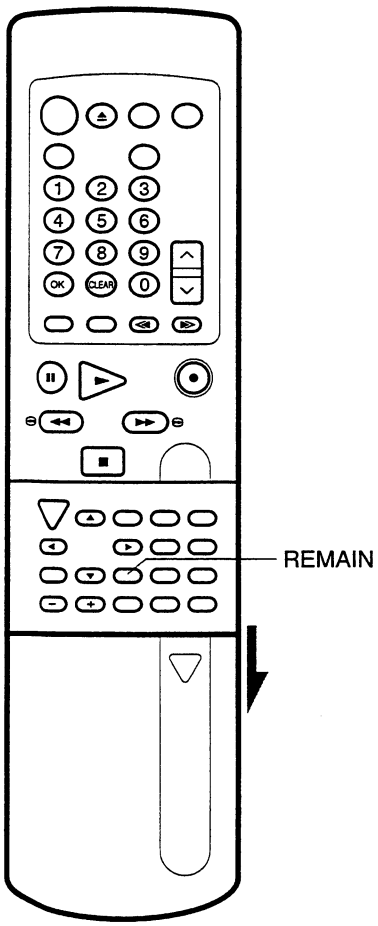
Press COUNTER DISPLAY. Each press changes the on-screen function display as follows:



- **Auto Display**
  Only the affected indicator is displayed for 5 seconds, when the video operation mode changes.

- **Counter Display**
  The tape counter is continuously displayed as in Auto Display.

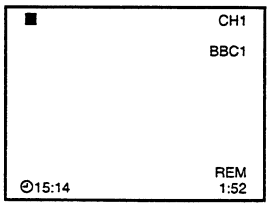
- **Full Display**
  All indicators are displayed continuously.



Changing the remaining tape length display

You can change the remaining tape length display form the bar to the counter.

Press REMAIN when the remaining tape length display appears.



Press REMAIN again when the remaining tape counter display appears to return to the bar display.

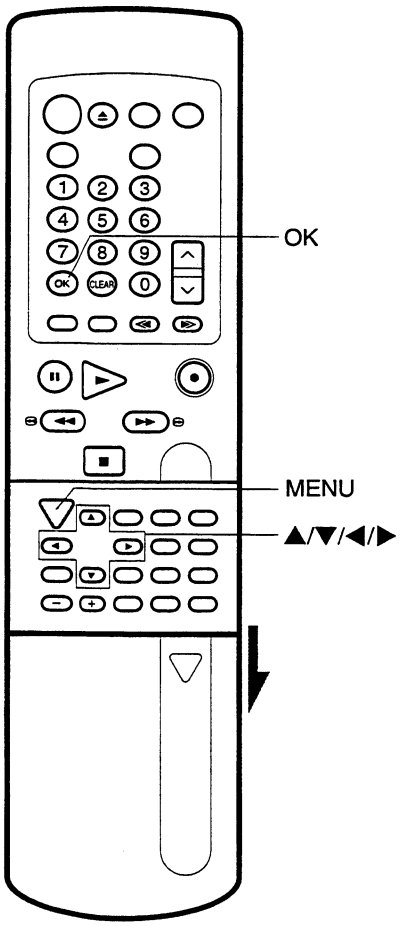
Tip

Set TAPE LENGTH in SYSTEM menu before checking the remaining tape length. See page 40.

Notes

- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.
- When you insert a tape with a short tape length such as E-30 or a non-standard commercially available tape, the remaining tape counter may not be correct.
- The remaining tape counter does not work for an NTSC-recorded tape. "–:– –" appears.
- The remaining tape counter is intended for rough measurement only.
- About 1 minute in SP mode or 2 minutes in LP mode after the tape is inserted, the remaining time will be displayed.

Changing the system set up – System Menu

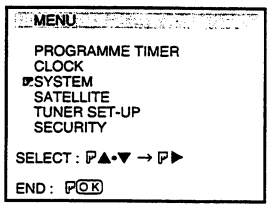


Note

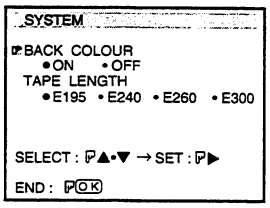
The System Menu settings are retained even if the power to the unit is interrupted.

1 **Press MENU.**

2 **Press ▲/▼ to select SYSTEM, then press ▶.**



3 **Press ▲/▼ to select the item you want to change.**



4 **Press ◀/▶ to change the setting.**

5 **Press OK to return to the normal screen.**

Menu choices

- **BACK COLOUR**

  Set this option to:

  ON to display a blue screen when playing unrecorded tape and when there is no TV signal

  OFF to turn off this function

- **TAPE LENGTH**

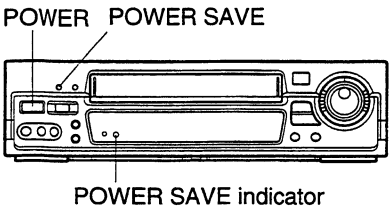
  Select the tape length of the cassette you are using to display the remaining tape length correctly on the TV screen.

  If the tape length of the cassette you are using is not displayed, select as follows:

  E-210 tape: Select E-240.

  E-180, E-120, E-90, E-60 or E-30 tape: Select E-195.

Setting the power save mode



You can reduce the power spending during the standby mode.

Press POWER SAVE on the VCR when the VCR is in standby mode.

- The POWER SAVE indicator lights. If you turn the VCR off, the VCR goes into the power save mode.
- The POWER SAVE indicator flashes for a few seconds, if the VCR is set to make a timer recording. The VCR does not go into the power save mode.
- The power consumption during power save mode is approximately 3.7 W.

Important

During the power save mode, the display window on the VCR goes off.

To cancel the power saving mode

Press POWER SAVE on the VCR during the power save mode to turn off the POWER SAVE indicator. The clock display will then come on.

Tip

If you press ● REC/OTR repeatedly while the POWER SAVE indicator is lit, the VCR enters into the power save mode after finishing the One-Touch Recording. If you want to perform One-Touch Playback after One-Touch Recording, you have to cancel the power save mode before starting One-Touch Recording.

Troubleshooting

If the unit does not seem to operate properly, read the instructions again, then check the table below.

Symptom	Solution
The POWER button does not operate.	Make sure the mains lead is connected securely.
The playback picture is noisy.	• Make sure the TV is set to the video channel or video input. • Adjust the tracking manually when the tape quality is poor. • Although the unit cleans the video heads automatically, dirt may be accumulated after a long period of use. Clean the video heads with a commercially available video heads cleaning tape. • Make sure all the connections with the VCR are made correctly and securely.
There is no playback picture.	Set the TV to the video channel or video input.
TV reception is noisy or there is no TV reception.	• Connect the VCR to the aerial and TV correctly and securely. • Move the VCR away from the TV set.
Tape operation buttons do not work while	Moisture condensation may have occurred. Wait for about two hours until the power is on and the cassette is inserted moisture evaporates completely before you operate the VCR.
Abnormal operation has occurred.	External interference may have affected the internal microprocessor. Disconnect the mains lead from the mains outlet. Wait a few seconds, then connect it again.
The remote control does not operate.	Replace both batteries with new ones.
There is no sound.	Connect the VCR correctly and securely.
The timer does not operate.	Set the VCR clock correctly.
The VCR receives no or noisy NICAM.	• Make sure the aerial is receiving the NICAM broadcast clearly. • Set NICAM to OFF in the TUNER SET-UP menu.
No clock display.	The VCR is in power save mode.

Specifications

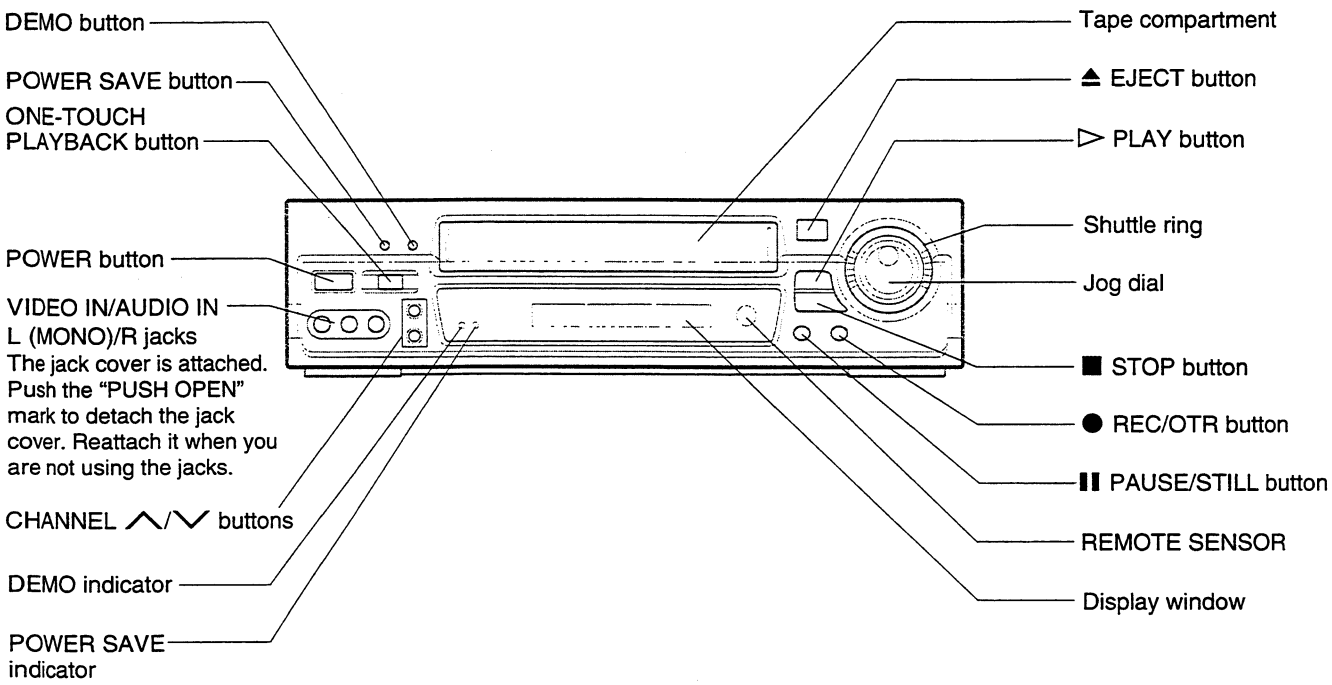
Video recording system		Rotary 2 head helical scanning system
Video head		Double azimuth 4 heads
Tuner system		Voltage synthesized tuner
TV system		I
Video signal		PAL colour signal, 625 lines, 50 fields
Usable cassettes		VHS-PAL video cassettes
Recording/playback time		
	PAL	4 hours 20 minutes max. with E-260 tape, SP
		8 hours 40 minutes max. with E-260 tape, LP
	NTSC	(Playback only)
		3 hours max. with T-180 tape, SP
		6 hours max. with T-180 tape, LP
		9 hours max. with T-180 tape, EP
Fast forward/rewind time		Approx. 3min. with E-180 tape
Tape speed	PAL	SP: 23.39 mm/sec.
		LP: 11.69 mm/sec.
	NTSC	(Playback only)
		SP: 33.35 mm/sec.
		LP: 16.67 mm/sec.
		EP: 11.12 mm/sec.
Channel coverage		UHF 21ch - 69ch
RF output		UHF channel between 22 and 69, 73dbμ
Video input		0.5–2.0 Vp-p, 75 ohm, unbalanced
Video output		1.0 Vp-p, 75 ohm, unbalanced
Horizontal resolution		240 lines (nominal)
Video S/N		43 dB (nominal)
Audio track		3 tracks (Hi-Fi sound 2 tracks, Normal sound 1 track)

Hi-Fi frequency response	20 Hz–20 KHz
Hi-Fi dynamic range	More than 90 dB
Hi-Fi Wow and Flutter	Less than 0.01% (nominal)
Audio input level	SCART: –8 dB, 22 Kohm
	RCA: –8 dB, 22 Kohm
Audio output level	SCART: –8 dB less than 2.2 Kohm
	RCA: –8 dB less than 2.2 Kohm
Operating temperature	5°C to 40°C
Power requirements	230 V AC, 50 Hz
Power consumption	23 watts
	TYP 3.7 watts (power save mode, 230V AC)
Dimensions	380 (W) × 293 (D) × 99 (H) mm
	(15 × 11⅝ × 4 in.)
Weight	Approx. 4.5 kg (9.9 lbs.)
Supplied accessories	Aerial cable (1)
	Batteries (2)
	Mains lead (1)
	Remote control (1)
	Jack cover (1)
	Audio cable (1)

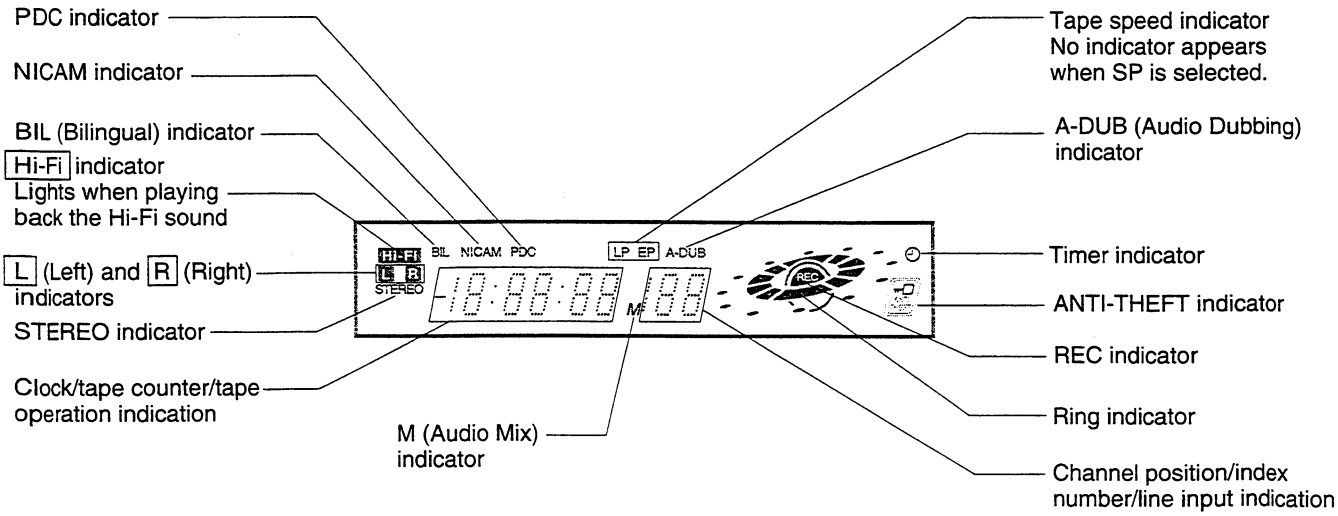
Design and specifications are subject to change without notice for the purpose of performance improvement.

Index to parts and controls

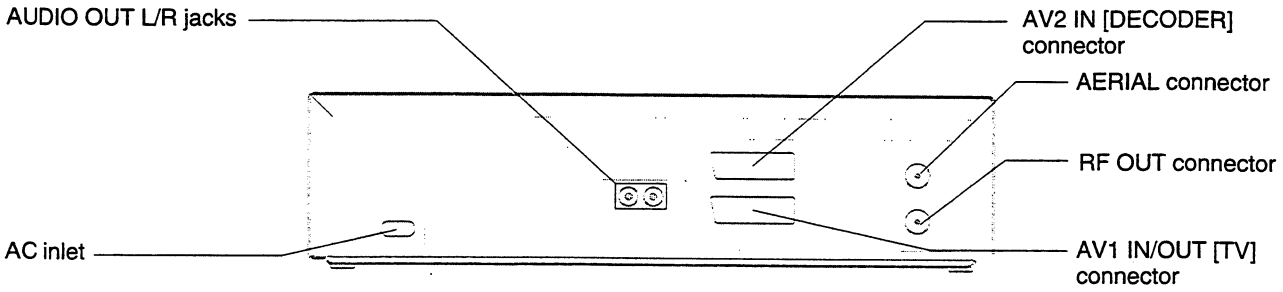
Front panel with the jack cover detached



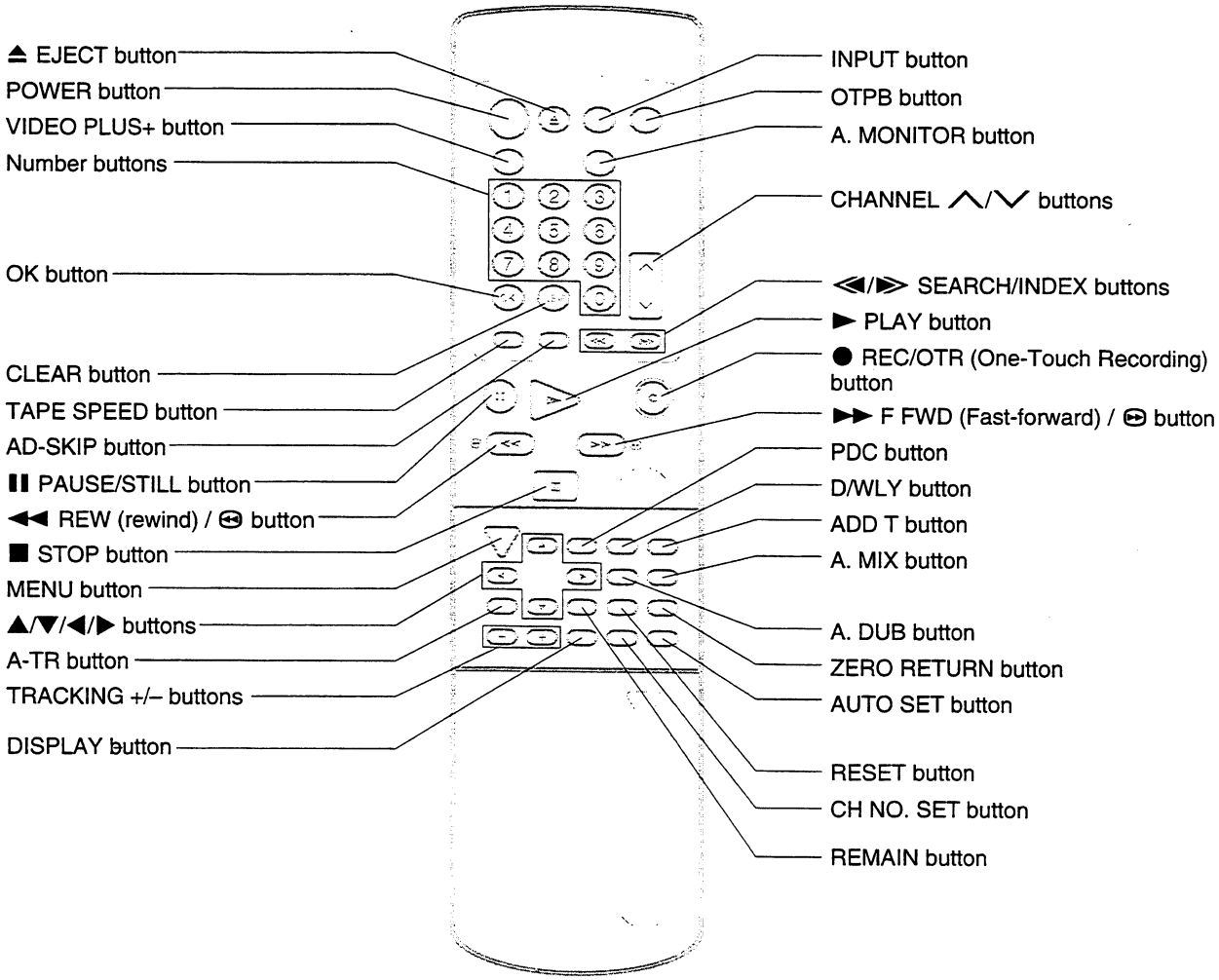
Display window



Rear panel



Remote control with the front cover opened



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